# QSDR16RTCB

## User's Manual

**Contact Us:**

**Digital Peripheral Solutions, Inc.**
**8015 E. Crystal Drive**
**Anaheim, CA 92807**

**Website:**
**http://www.Q-See.com**

**Customer Service:**
**Phone: 877-998-3440 x 538**
**Email:cs@dpsi-usa.com**

**Tech Support:**
**Phone: 877-998-3440 x 539**
**Email:ts@dpsi-usa.com**

**Fax:**
**714-998-3509**

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# Safety Instructions

1. **Use proper power source.**

   Do not use this product with a power source that applies more than specified voltage (100-240V AC).

2. **Never insert anything metallic into the DVR case.**

   Putting something into the DVR case can be a source of dangerous electric shock.

3. **Do not operate in wet & dusty area or use near water.**

   Avoid places like a damp basement or dusty hallway.

4. **Do not expose this product to rain or use near water.**

   If this product accidentally gets wet, unplug it and contact an authorized dealer immediately.

5. **Keep product surfaces clean and dry.**

   To clean the outside case of the DVR, use a cloth lightly dampened with water (no solvents).

6. **Provide proper ventilation.**

   This DVR has a built in fan that properly ventilates the system.

7. **If there are any unusual sounds or smells coming from the DVR, unplug it immediately and contact Q-See.**

   Warning: You may be subjected to severe electrical shock if you remove the cover of the DVR.

8. **Handle DVR box carefully.**

   If you accidentally drop your DVR on any hard surface, it may cause a malfunction. If the DVR doesn't work properly due to physical damage, contact an authorized dealer for repair or exchange.

9. **Use standard lithium cell battery (preinstalled).**

   The standard lithium cell 3v battery located on the mother board should be replaced if the time clock resets during a power outage. Warning! Unplug the DVR before replacing battery or you may be subjected to severe electrical shock. Properly dispose of old batteries.

10. **Make sure there is good air circulation around the unit.**

    This DVR system uses a hard drive for video storage which generates heat during operation. Do not block air holes (bottom, upper, sides and back) of the DVR as they are designed to cool down the system while running. Install or place this product in an area where there is good air circulation.

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# Chapter 1: DVR Features

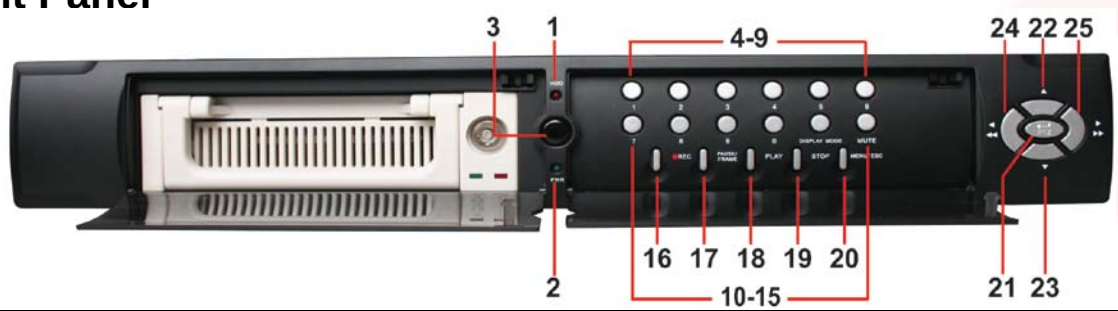
| Function | Brief Description |
|---|---|
| Real-Time Monitoring | Double video output with monitor VGA virtual output port; Supports net-viewer and Multiple Person live surveillance, Zoom In/Out on live video, dwell time display and PIP display. |
| Record | H.264 video compression format; recording quality options, multiple recording modes (Always, Scheduled, Manual, Alarm, Motion detection and remote recording). |
| Save Recordings | Supports SATA HDD up to 1TB and save real-time recordings to HDD. |
| Playback | Supports DVR single CH and multiple CH playback of recorded files. |
| Backup Recordings | Supports DVR backup via USB flash drive, removable drive and network. |
| Alarm Setting | Supports HDD & video input alarm management and external alarm signal inputs. |
| Network Operation | Supports remote surveillance by multiple users simultaneously. |
| Mouse Operation | Supports mouse operation for faster menu navigation. |
| PTZ Control | Supports PTZ camera operations through RS-485. |

## Other Features:

- H.264 Video Compression Format; Supports D1 Resolution
- ADPCM Audio Compression Format
- Windows Graphics Interface; Built-In Real-Time Linux 2.6 Operation System
- Menu Status Notification
- Multiple Operation (Preview, Recording, Playback, Backup, Network Surveillance and Mobile Phone Monitoring Simultaneously)
- Supports Double Encoded Bit Network Transmission
- Supports Remote Live Viewing Via 3g Mobile Networks
- Supports Zoom In/Out And Dwell Time Display
- Adjustable Video Package Time
- Multiple Alarm Record Mode
- Rear USB 2.0 Ports For Back-Up, Upgrade and Mouse Operation
- IR Remote Control Operation
- Multiple Language OSD (On Screen Display)
- Supports Auto Maintenance

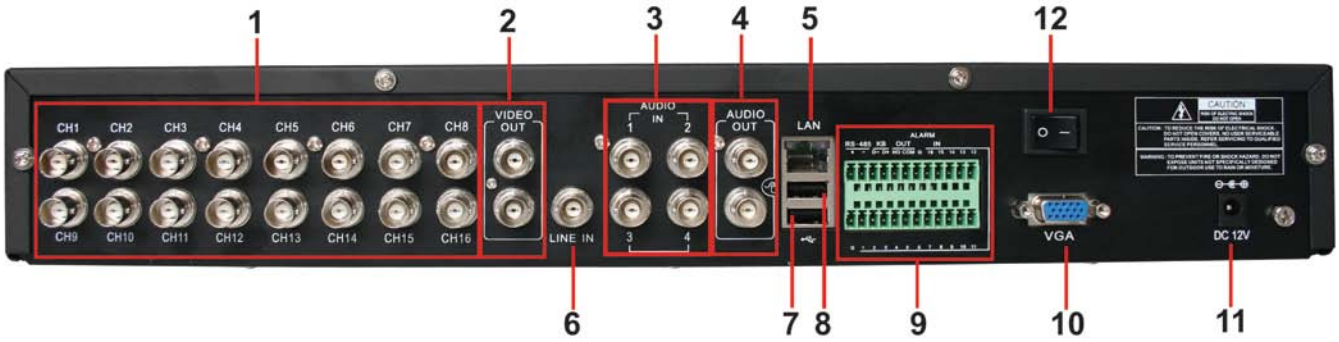
# Chapter 2: Layout

## 2.1: Front Panel



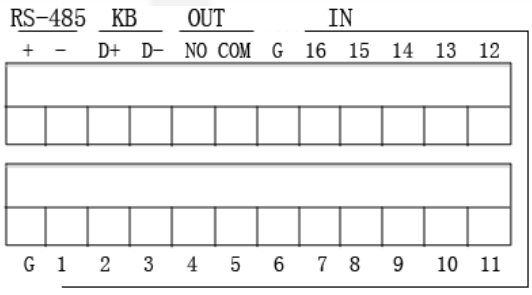

| Item | Type | Key Title /Indicator | Marks | Function | |
|---|---|---|---|---|---|
| 1 | Indicator | HDD Indicator | HDD | Hard drive is being read or written to when “Red” indicator flashes. | |
| 2 | | Power Indicator | PWR | If the “Green” indicator is on the system is getting power. | |
| 3 | IR Receiver | | ○ | Receives signal from Remote Control | |
| 4 | Channel Select & Numeric Input | Single Channel Display and Numeric Key | 1 | CH-1; Numeric Key 1 | CH11-CH16, Select Method: Press First Numeric Value Key + Second Numeric Value Key (i.e., Press 1 then 6 for CH-16, etc.) |
| 5 | | | 2 | CH-2; Numeric Key 2 | |
| 6 | | | 3 | CH-3; Numeric Key 3 | |
| 7 | | | 4 | CH-4; Numeric Key 4 | |
| 8 | | | 5 | CH-5; Numeric Key 5 | |
| 9 | | | 6 | CH-6; Numeric Key 6 | |
| 10 | | | 7 | CH-7; Numeric Key 7 | |
| 11 | | | 8 | CH-8; Numeric Key 8 | |
| 12 | | | 9 | CH-9; Numeric Key 9 | |
| 13 | | | 10 | CH-10; Numeric Key 0 | |
| 14 | PREVIEW | Multi CH Display | DISPLAY MODE | Quad Display; 9 CH and 16 CH Display | |
| 15 | Audio Control | MUTE KEY | MUTE | Turn Audio Input or Output On or Off | |
| 16 | REC | Manual Record | ● | Record Manually | |
| 17 | Play Controls | PAUSE | ⏸ PAUSE/FRAME | Pause Play/Play Frame by Frame | |
| 18 | | PLAY | PLAY | Play Recorded Events | |
| 19 | | STOP | STOP ■ | Stop Playing Recorded Events | |
| 20 | Complex Key | MENU | MENU/ESC | Got to Main Menu/Exit | |
| 21 | | PTZ | PTZ | PTZ Control; Select [Enter]/[Edit] | |
| 22 | Direction Key | UP | ▲ | Move Up | |
| 23 | | DOWN | ▼ | Move Down | |
| 24 | | LEFT | ◀ /◀◀ | Rewind | |
| 25 | | RIGHT | ▶ /▶▶ | Forward | |

## 2.2: Rear Panel




| Item | Physical Port | Connection Method |
|---|---|---|
| 1 | Video Input | Connect Ch1-16 (BNC Interface) |
| 2 | Video Output | Main Video Output |
| 3 | Audio Input | Connect CH1-4 Audio Signal Input (BNC Interface) |
| 4 | Audio Output | Connect Audio Output (BNC Interface) |
| 5 | Ethernet Port | Connect Intranet, Internet (RJ-45 Interface) |
| 6 | LINE IN Port | Phonetic Talkback |
| 7 | USB Port | Connect USB Device (Flash Drive, Hard Drive) |
| 8 | USB Port | Connect USB Mouse |
| 9 | RS-485/Sensor/Alarm | RS485/Sensor/Alarm Interface (See Pin Outs Below) |
| 10 | VGA Port | Connect To VGA Monitor, Such As PC Monitor |
| 11 | Power Port | Connect Power Supply - DC12V 8.33A |
| 12 | Power Switch | Turn Power On And Off |

### 2.2.1: RS485/Sensor/Alarm Port Functions:




**Alarm Input:** Connect your sensor's [-] port to G and [+] port to the channel input of your choice.

**Alarm Output:** Indicated by the two ports marked "out".

**PTZ Port:** PTZ camera connection using RS-485+ and RS485- Ports

## 2.2.2: Remote Control

| Key Title | Key Function |
|---|---|
| REC | Manual Recording |
| SEARCH | Search Mode |
| 2×2 | Quad Display |
| 3×3 | 9-CH Display |
| 4×4 | 16-CH Display |
| AUTO | Dwell Time Display |
| 0~9 | Channel Select; Numeric Key |
| DISPLAY MODE | Multiple CH Display (Quad, 9-CH, 16-CH and Single-CH Display) |
| ▲ | UP |
| ▼ | DOWN |
| ◄/► | Left/Right Key |
| ENTER | Select/Edit/Enter |
| Menu/ESC | Main Menu/Exit |
| PIP | PIP Display Mode |
| MUTE | Mute |
| FWD | Forward (x2, x4, x8) |
| REW | Rewind (x2, x4, x8) |
| PLAY | Search or Play Recorded Events, |
| STOP | Stop Play |
| PAUSE/ FRAME | Pause/Frame by Frame |
| SLOW | Slow Play (½, ¼, 1/8) |
| Z+ | Zoom In |
| Z- | Zoom Out |
| F+ | Focus In |
| F- | Focus Out |
| I+ | Increase PTZ Brightness |
| I- | Decrease PTZ brightness |
| PTZ | PTZ Control |
| LOCK | Lock System |

## 2.2.3 Mouse Operation

For your convenience, your Q-See DVR System can also be operated by a mouse in addition to the front panel controls and remote control.

| Action | Function |
|---|---|
| Left Click | With your DVR in Menu Unlock mode, left clicking on your mouse opens a pop-up dialog menu that allows you to access your programming and configuration settings. Some of the options available by left clicking include :<br>• Edit your record settings.<br>• Playback recorded files.<br>• Access a pull-down menu.<br>• Control color and volume settings.<br>• Choose your system's language settings.<br>• Double clicking the left key of your mouse maximizes the screen view. |
| Right Click | With your DVR in Live Display mode, right clicking will display a pop-up menu (See Picture 3) which allows you to:<br>• Exit system programming and configuration mode.<br>• Close all configuration menu dialog boxes. |
| Sliding Mouse | • In Motion set mode, sliding the mouse will select the area of motion you wish to choose.<br>• In Color Set mode, sliding the mouse allows you to access and adjust the color control bar and the volume control bar. |

# Chapter 3: DVR Installation

## 3.1: Hard Drive Installation

**Caution： NEVER Install or remove the hard drive while the DVR is running!**

The model has a Hard Disk Drive (HDD) drawer. Please use key provided to open the drawer and insert the HDD as follows:

(1) Remove screws and open DVR upper cover carefully;
(2) Insert Power Cord and data cable securely into matching ports on hard drive;
(3) Put the upper cover back carefully, re-attach screws.

## 3.2: Connecting Your DVR to Cameras and a Monitor

Connect camera cable to the Video Input port of the DVR. Connect the monitor to the Video Output port of the DVR using a BNC connector (See Rear Panel Section 2.2).

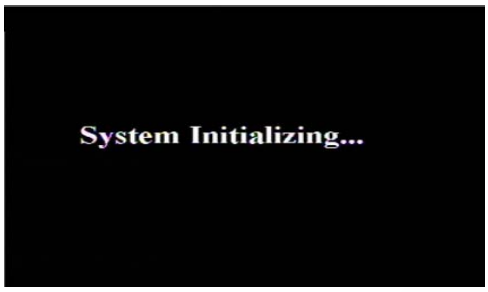
To connect a PTZ speed dome to your DVR System, connect your PTZ Camera data cables to your RS485 A & B ports. See Chapter 5 for a more detailed account of PTZ Camera configuration instructions.

## 3.3: Connecting the Power Supply

Only use the power adapter supplied with your DVR System. Failure to do so may result in unforeseen system failures.

# Chapter 4: DVR Boot up

## 4.1: System Initialization




**(Picture 1)**

After connecting the power adapter and turning on the power button, the system will boot-up and you will see a “System Initializing” message (See Picture 1).

## 4.2: Main Interface

**(Picture 2)**

Once the system initialization process is complete, the system will enter the main interface (See Picture 2). If the system does not detect video input, you will receive a “Video Loss” message for each camera as depicted in Picture 2. Once the cameras have been connected, the Main Interface will display a live feed from each camera in its own box (See Picture 2). You can use the mouse to double-click on any of the live images in the Main Interface panel to obtain a full screen view of the camera you choose to zoom in on. Double-clicking a second time will zoom out of the single camera view and switch you back to multi-camera view (See Picture 2). Right-clicking your mouse will display a pop-up menu which allows you to access various menu items. Clicking on any area outside the pop-up menu will enable you to exit.

Note: When the DVR does not detect a HDD, the first box in the Main Interface will display a character “H” and you will hear an accompanying alarm buzzer. To turn the alarm off, go to [Device manage→Alarm setting]. Choose the “off” option next to “HDD loss, HDD space not enough and alarm output”.

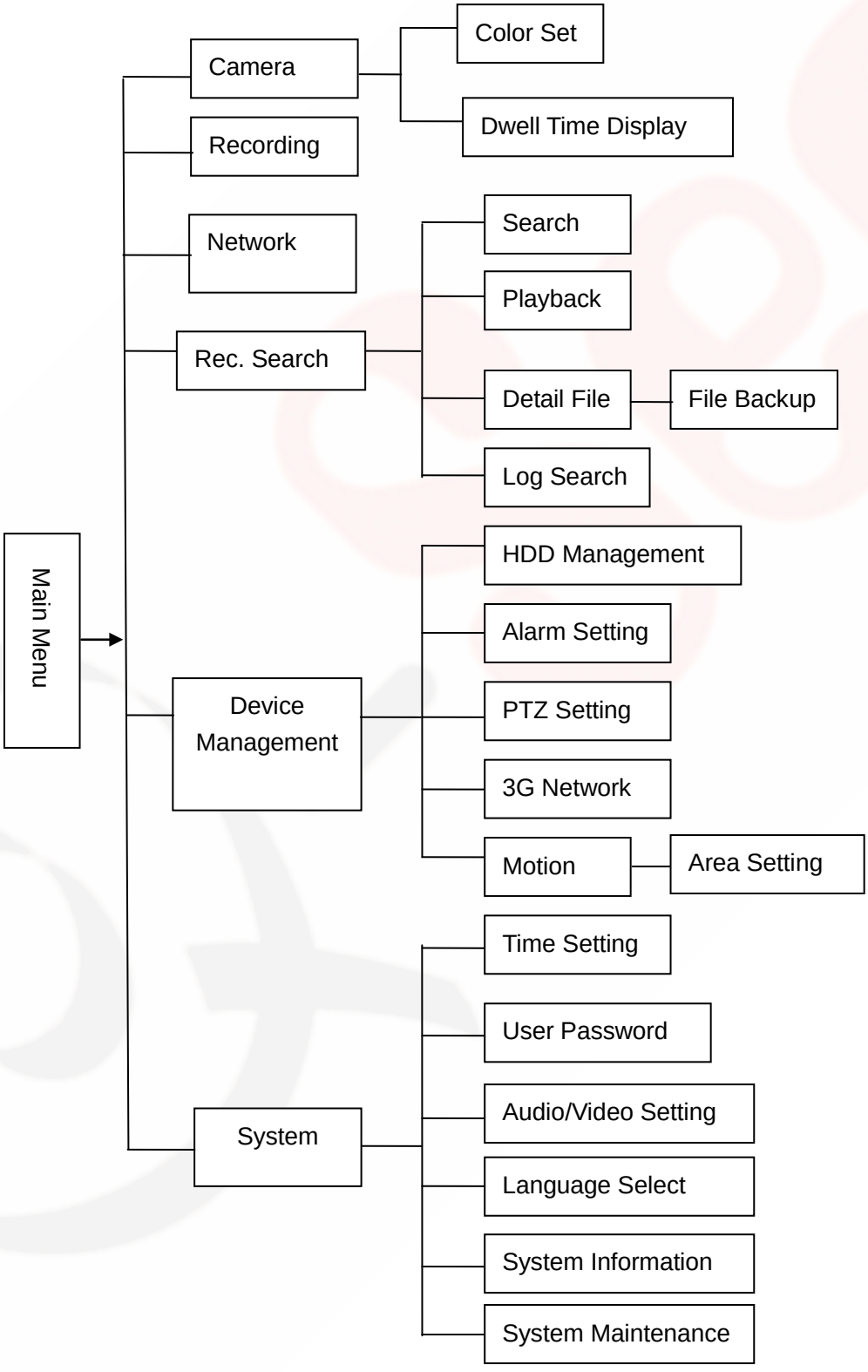
## 4.3: Pop-Up Menu

**(Picture 3)**

Once the System Initialization process is through, right-click your mouse in the Main Interface mode and you will receive a pop-up menu. From here, you can access the Main Menu, PTZ, Video Search, Mute, Start and Stop Record, Start Rolling and Start Cruise options. You can also access a sub menu to configure your Multipicture and PIP Mode settings (See Picture 3)

# Chapter 5: DVR Menu

## 5.1: Main Menu At-a-Glance

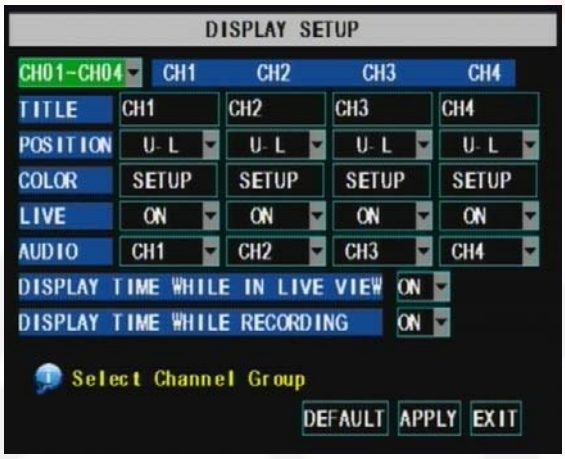


## 5.2: Main Menu

**(Picture 4)**

The right-click menu in the Main Interface mode (Picture 3) allows you to access the Main Menu interface (Picture 4). You can use the right click function of the mouse or the Menu button on the front panel of the DVR to enter into the Main Menu interface. Use the mouse or the FWD and REW button on your DVR's front panel or remote control to navigate around the Main Menu Interface and select the icon of the program you wish to access (See Picture 4). Use the ESC button on your DVR's front panel to return to the previous window of the Main Menu interface. Set your management permissions, configure your devices, customize your recording parameters, and access your System Functions (such as time, date and passwords) through the Main Menu Interface. You can also configure the controls for your Camera, Network, HDD, Alarm, PTZ, & Mobile Phone controls through the Main Menu Interface.

### 5.2.1: Camera Setup




**(Picture 5)**

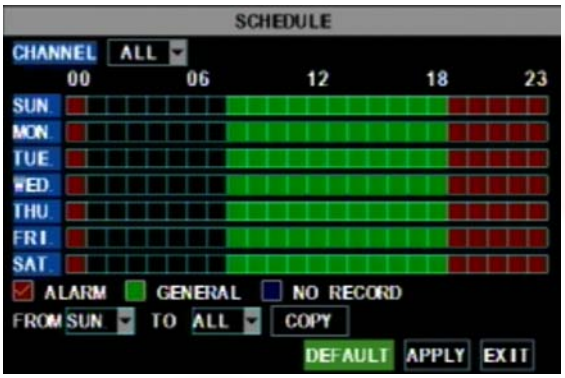
To set up the display name and position display of each camera, go to [Main Menu → Camera] and you will receive a Camera Setup interface (Shown as Picture 5). Through the Camera Setup interface, you are able to choose a name for each of your connected cameras up to 8 characters long. You can also adjust the image brightness, saturation, contrast and hue settings of each camera. To do this, push the SETUP button in the [Color] Menu and make the desired changes. The Camera Setup interface also gives you the ability to choose which camera channels you wish to enable live viewing of and which camera channels you wish to set up with the ability to record.

**(Picture 6)**

Please note that any modifications you make through the Camera Setup interface will not be applied until you click the [APPLY] button at the bottom of the dialog box (Picture 6). Once you do this, you will then be prompted to save your settings, and you must click [OK] in order for the changes to take effect. If you wish to abort the changes you made, simply click the [Exit] button on the bottom of your dialog box (Picture 6). By clicking on the [DEFAULT] button at the bottom of your Color Setup dialog box (Picture 6) all system default values will be reset to their original factory installed settings.

## 5.2.2: Record Setup

**(Picture 7)**




**(Picture 8)**

The right click menu in the Main Interface mode (Picture 3) allows you to access the Main Menu interface (Picture 4). To set up the recording parameters and settings of your DVR, go to [Main Menu] →[Record] to enter into [Record Setup] menu (Picture 7).

The [Record Setup] menu (Picture 7) allows you turn the recording status for each camera channel on and off, set the recorded image resolution and enable audio. This menu also allows you to schedule your recording times and set your recording interval durations.

The [RECORD] button on your Record Setup Menu (Picture 7) allows you to turn each camera channel's recording ability on or off. The [QUALITY] button gives you the option of choosing the quality of your recorded images from a drop down list for each individual camera channel. The [AUDIO] button allows you to turn the audio input on or off. When the audio is turned off, the DVR system will not record audio and you will not hear sound during playback of your recorded events.

The [REC MODE] button allows you to setup the system to record 24 hours a day, on a set schedule or when motion is detected. The [PACK TIME] button allows you to set the maximum recording time for all recorded files to be 15, 30, 45 or 60 minutes.

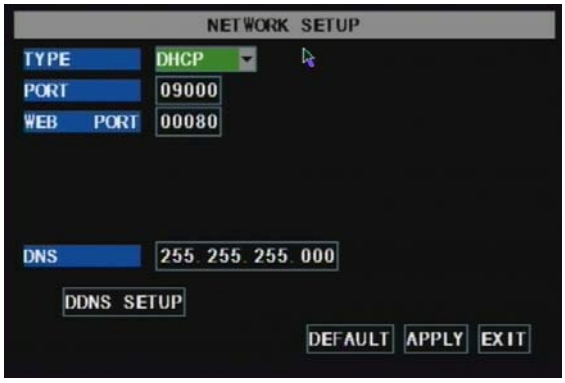
To record 24 hours a day, set the Rec Mode to Always. To record on motion or a set schedule, select Time Schedule Record and click the "Schedule" option. A "Schedule" interface will open as shown in Picture 8. You can choose from a pull down menu at the top of your Schedule interface to adjust the recording options for all channels or from the channels specified in the drop down menu if you prefer to set the recording parameters for each individual channel separately.

You are also given the option of setting up the date parameters of your scheduled recordings by choosing from the drop down menu on the bottom of your Schedule interface in the "From" and "To" options. Checking the ALARM (motion recording), GENERAL (always recording) and NO RECORD boxes will allow you to further customize options for your scheduled recordings.

If you decide that you do not wish to customize your system recording schedule, the Default recording schedule is as follows:

Hr 01:00 am - 07:59 am: No recording (Not recording)
Hr 08:00 am - 18:59 pm: Normal recording
Hr 19:00 pm - 00:59 pm: Alarm recording (Record on activity or alarm only)

## 5.2.3: Network Setup



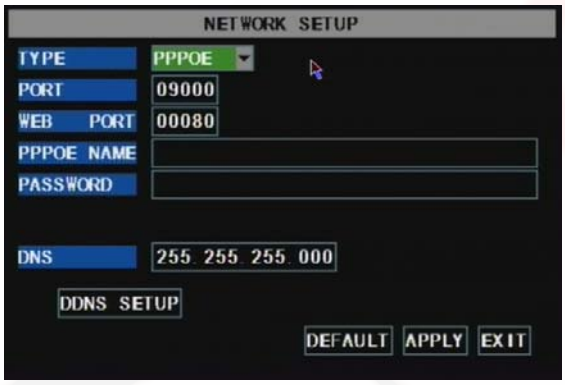

**(Picture 9)**

The right click menu in the Main Interface mode (Picture 3) allows you to access the Main Menu interface (Picture 4). To set up the Network settings of your DVR, go to [Main Menu] →[Network Set] to enter into [Network Setup] menu (Picture 9).

From the Network Setup menu (Picture 9), you can choose your Network Type (DHCP, PPPoE, or Static), Port and Web Port (80 and 9000 by default) from a drop down list. Once you have configured these, you can then view the DVR remotely over a network or the internet.

### 5.2.3.1: DHCP

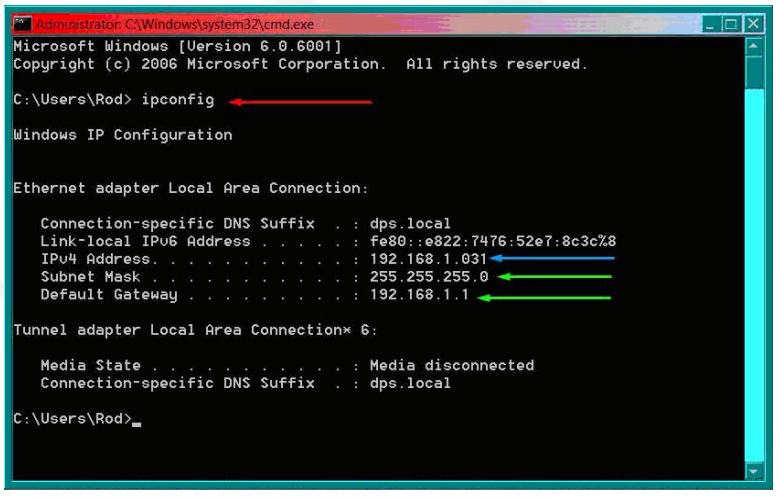
When selecting DHCP as your Network type, your Router will allocate a DVR IP address automatically once you exit the Network Setup menu. Write down the address assigned by your Router. It is recommended you switch to the "Static" Network Type and enter the address information here to avoid any discrepancies that might occur in the event your Router auto generates a different address in the future.




**(Picture 10)**

### 5.2.3.2: PPPoE

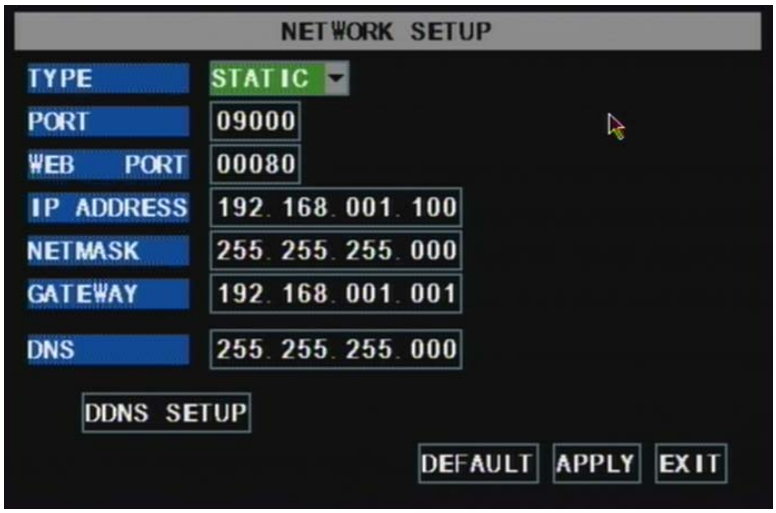
When selecting PPPoE as your Network type, you will need to input a user and password provided by your internet service provider. Once you have obtained those settings from your internet service provider, you will need to set your web port as illustrated in Picture 10.


Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.0.6001]
Copyright (c) 2006 Microsoft Corporation. All rights reserved.
C:\Users\Rod> ipconfig
Windows IP Configuration
Ethernet adapter Local Area Connection:
Connection-specific DNS Suffix . : dps.local
Link-local IPv6 Address . . . . . : fe80::e822:7476:52e7:8c3c%8
IPv4 Address. . . . . : 192.168.1.031
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.1.1
Tunnel adapter Local Area Connection* 6:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : dps.local
C:\Users\Rod>

**(Picture 11)**

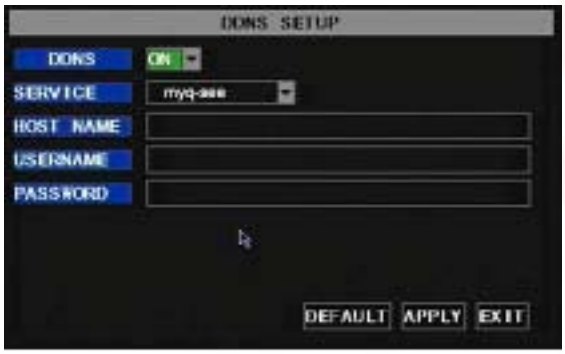
### 5.2.3.3: STATIC

When selecting Static as your Network type, you will need to set the Network setting on the DVR to match settings of your Router. To do this, bring up the command prompt on any computer attached to your Router by typing cmd into your Run program (Picture 11). Type in ipconfig at the prompt (see red arrow on Picture 11) to access the router settings. Write down the gateway and subnet mask numbers (Green arrows on Picture 11) so you can enter them into the network settings of the DVR (Picture 12).




**(Picture 12)**

To set up the Network settings of your DVR, go to [Main Menu] →[Network Set] to enter into [Network Setup] menu (Picture 9). Select the Static option from the drop down menu on the Network Setup menu (Picture 12). For the DVR's IP address, use the same first 3 sets of numbers as the gateway and select a fourth set of numbers that is different than any other device attached to the same router. If the IP address of your computer in the ipconfig (BLUE arrow in Picture 11) was a single or two digit number you should be ok with any three digit number, if the computer IP address ends with a number in the 100s then you should use a number in the 200's. Once you enter the addresses hit OK button.




**(Picture 13)**

At the bottom of the NETWORK SETUP window there is an option to setup the DVR to be accessed through a DDNS service. Clicking on this button will pull up a screen as seen in Picture 13. Through here, you can set your DVR up to use a Dynamic Domain Name Service. Keep in mind that a dynamic address can change from time to time depending upon your service provider. In the event that it does change, you will need to go to a website such as www.myipaddress.com from a computer attached to the same router as the DVR to figure out what that new IP address is.

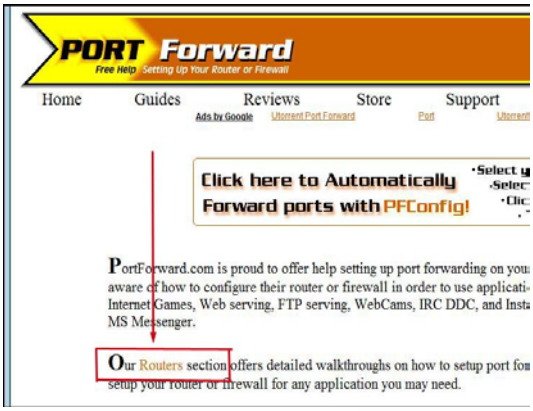
To avoid a change in IP Address by your Internet Service Provider, you can either ask your service provider for a static IP Address or use a dynamic domain name service to get a domain name that can be linked to your dynamic address. You can register for a domain name, user name, and password through our company's myq-see.com website. By registering, you can then enter your dynamic domain name into an Internet Explorer browser instead of an IP address and be directed to whatever the current dynamic IP address is, so that you can always access the DVR by entering the same address. This DVR also supports the DDNS service provided by dyndns. You can get more information on how to use these services from the myq-see.com or www.dyndns.com website.

**5.2.3.4: Port Forwarding**

To access the DVR from a remote computer over the internet you will need to forward port 80 and port 9000 of the Router the DVR is attached to, to the IP address of the DVR. You can get instructions on how to do this for most popular routers by going to www.portforward.com. Once there, click on the orange "Routers" link in the second paragraph as shown in Picture 14. Find the link of the brand and model of your router from the list of manufacturers and click the "next button". From there, click on the orange "Default Guide" link (BLUE box in Picture 15). This will take you to the port forwarding instructions for your router.

When you access the DVR from a remote computer you also need to use a different address in the Internet Explorer browser window. Instead of entering the IP address of the DVR you need to enter the public IP address of the router the DVR is attached to. You can get this address by going to www.myipaddress.com from a computer that is attached

to the same router as the DVR. This website will display your address as illustrated in Picture 16. The example below shows an IP Address of 76.254.183.54. Please make sure to take note of the address that you obtain for your own Router and use it accordingly.


PORT Forward
Free Help Setting Up Your Router or Firewall
Home
Guides
Reviews
Store
Support
Click here to Automatically
Forward ports with PFConfig!
PortForward.com is proud to offer help setting up port forwarding on you
aware of how to configure their router or firewall in order to use applicati
Internet Games, Web serving, FTP serving, WebCams, IRC DDC, and Insta
MS Messenger.
Our Routers section offers detailed walkthroughs on how to setup port for
setup your router or firewall for any application you may need.

(Picture 14)

PORT Forward
Home
Guides
Reviews
Store
Support
Forum
Requests
Click here to Automatically
Forward ports with PFConfig!
Below you see a list of routers and firewalls. These are the devices that we have written support documents for. These
documents provide step-by-step guides on how to setup port forwarding. Our ultimate goal is to have a write up for every
hardware router and firewall available and instructions for every application that Internet users have difficulty getting to
work through their router or firewall. These guides are provided to help you, but we are in no way responsible for the
state of your network. If you encounter any errors in our guides, please let us know by using our Comments page.
If you do not know exactly what you are doing or are having problems, Start Here.
Welcome to our guide list for the Linksys WRT54Gv4. Please select the program you are forwarding ports for from the
list below. If you encounter any errors in our guides, please let us know by using our Comments page.
If you do not see the program you are forwarding ports for, be sure to visit our Default Guide for this router

(Picture 15)

(Picture 16)

### 5.2.3.5: Pop-Ups & ActiveX Controls

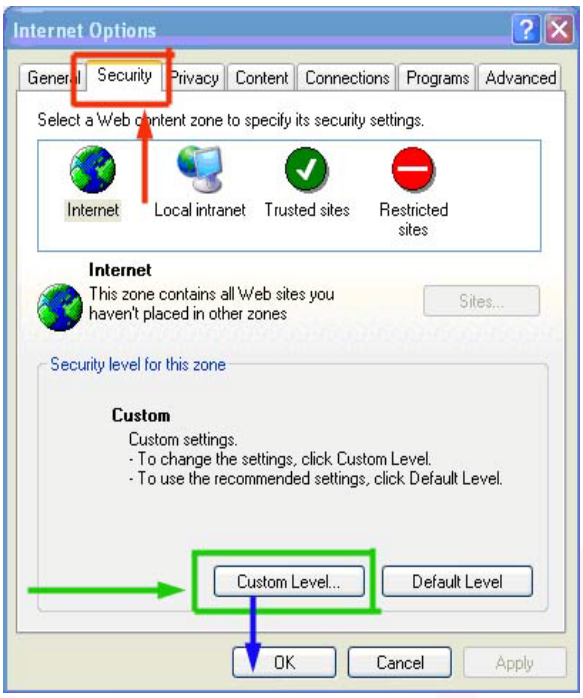
To access the DVR through Internet Explorer after you have configured your network settings on your DVR to match the settings of your Router and forwarded your ports as discussed above, you will need to modify your browser controls to allow Pop-ups. To do this, go to the Internet Explorer tool bar and select the "tools" option (RED box in Picture 17), then select the "Pop up Blocker" option and select "Turn Off Pop-up Blocker" (BLUE arrows in Picture 17). You will also need to enable Active X controls. To do this, go to the Internet Explorer tool bar and select the "tools" option, then "Internet Options"(GREEN arrow in Picture 17). This will open an Internet Options dialog box as shown in Picture 18. Through here, choose the "Security" tab (RED box in Picture 18), then click the "Custom Level" button (GREEN box in Picture 18), then click on OK (BLUE arrow in Picture 18). This will open a dialog box as shown in Picture 19. Once here, scroll down to the ActiveX Controls and Plug Ins and make sure they are all set to either prompt (BLUE arrows Picture 19) or enabled (RED arrows Picture 19).

(Picture 17)

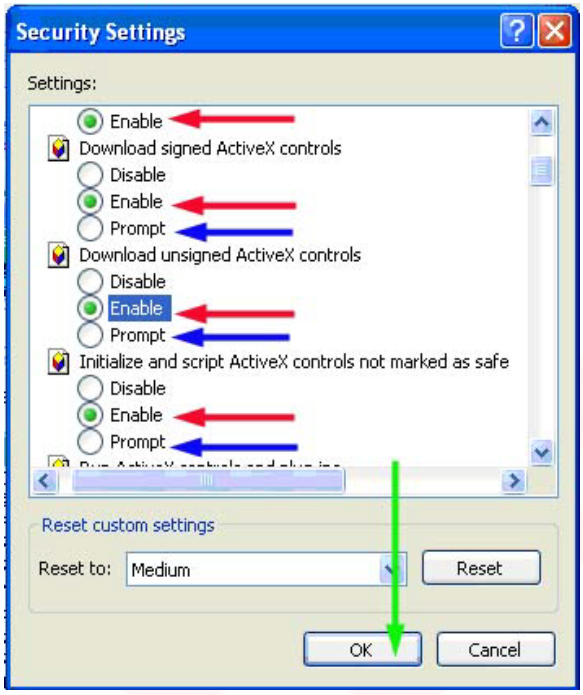
To connect to the DVR from the remote computer you would then open an Internet Explorer browser window and enter the internet IP of your router that you got by going to www.myipaddress.com.

NOTE: *If you cannot use HTTP port 80 or 9000 because it is being used by another program, or it is being blocked by your service provider, you can use another port in the same range. If you do so then you need to forward the IP address of the router to the other port, change the port in the DVR NETWORK settings and you need to add the port number after the IP address. For example, if you set the HTTP port as 82, you need to enter the IP address as 192.168.0.25:82.*

*User name and password here are the same as what you use on the DVR.*

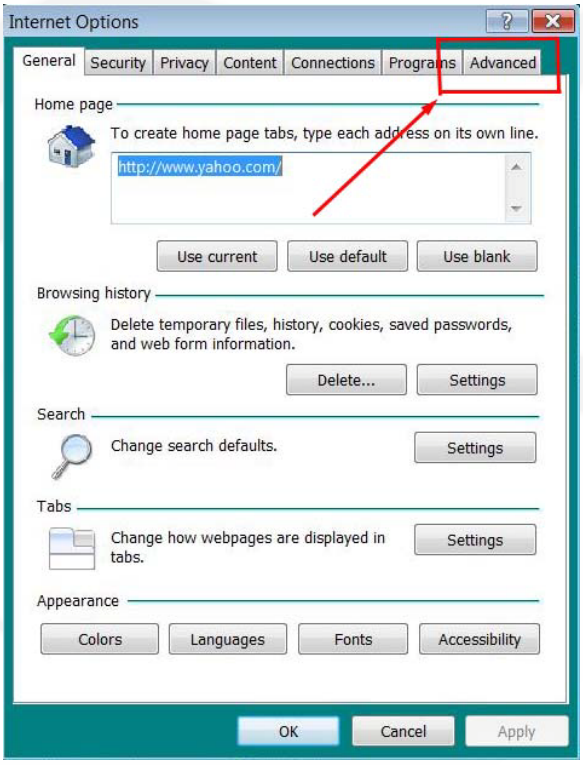



(Picture 18)

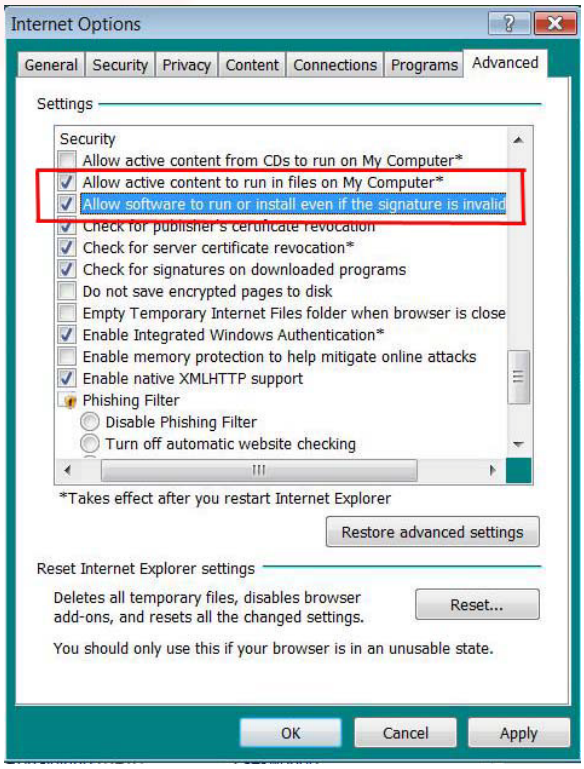



(Picture 19)

If you get a error message that says the program cannot load because the publisher is unknown or the program is unsigned, go to internet explorer→Tools→Internet Options (see Picture 18), then go to the "Advanced" tab (RED box in Picture 20). This will open the window in Picture 21. Scroll down to "Security", and select the options to "Allow software to run or install even if the signature is invalid", and "Allow Active Content to Run Files on My Computer" (RED box in Picture 21).




(Picture 20)


Internet Options
General
Security
Privacy
Content
Connections
Programs
Advanced
Settings
Security
Allow active content from CDs to run on My Computer*
Allow active content to run in files on My Computer*
Allow software to run or install even if the signature is invalid
Check for publisher's certificate revocation
Check for server certificate revocation*
Check for signatures on downloaded programs
Do not save encrypted pages to disk
Empty Temporary Internet Files folder when browser is close
Enable Integrated Windows Authentication*
Enable memory protection to help mitigate online attacks
Enable native XMLHTTP support
Phishing Filter
Disable Phishing Filter
Turn off automatic website checking
*Takes effect after you restart Internet Explorer
Restore advanced settings
Reset Internet Explorer settings
Deletes all temporary files, disables browser add-ons, and resets all the changed settings.
Reset...
You should only use this if your browser is in an unusable state.
OK
Cancel
Apply

(Picture 21)

## 5.2.4: Recording Search

**(Picture 22)**

Click [Main menu→ search] to enter into [Video Search] menu (Picture 22). If you input a specific date and click [Search], you will find all the recordings for that day. When you select [Date] item, you will playback the recordings in 4 channel mode; or, click [File list] button to display File list interface, where you can playback or backup the file you selected. See File List heading below.

You can search though recorded video at a Forward frame rate of 2x, 4x, and 8x. You can also search through recorded video at a Slow play rate of 1/2x, 1/4x, and 1/8x. You also have the option of searching through recorded video at a normal speed and pause and play frame by frame using the Playback control bar on your DVR system. When you have reached the end of your recorded files in search mode, your system will return to the previous menu.

**File List**

On the [Video search] menu mode, click [File list] and you will get a pop-up menu as shown in Picture 23. From here, you are able to search through the files associated with all the recorded material each channel has recorded. This feature allows you to view all of the available files by channel and type (all, normal, or alarm) and you can select each of these individual files by clicking on the box next to the name of the file. You can also use your system's DOWN and FWD buttons to search through the list of recorded files. The files you select can then be backed-up by clicking on the BACKUP button on your File List (Picture 23). It is possible to backup multiple files should you need to backup more than one file at a time.

**(Picture 23)**

As illustrated in Picture 23, the following options in the File List menu are as follows:

**FIRST:** Indicates the first page of recording history you have searched. When you view other pages, clicking [First] button brings you back to Page one.

**PREV:** Takes you back to page before the one you are currently viewing (except the first page).

**NEXT:** Takes you to the page after the one you are currently viewing (except the last page).

**LAST:** When you view other pages, clicking [Last page] button takes you to the Last page you viewed.

**ALL (Select All):** Select all the events on current page.

**INVERSE (Select Invert):** Select the opposite events than your current selection.

## 5.2.5: Backup Recorded Files

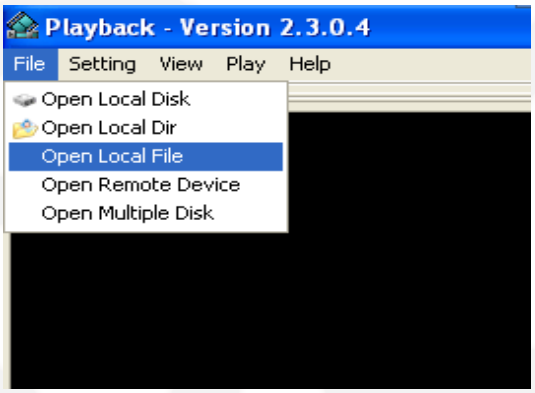
If you want to backup a single recorded file from the file list, from the File List dialog box in Picture 23, select the file you wish to back up by placing a check mark in the accompanying green box and hit the [BACKUP] button on the right of the screen. Choose the device you wish to back your file up to and then click the [APPLY] button. This will begin the back up process and generate a progress screen as illustrated in Picture 24.

**(Picture 24)**

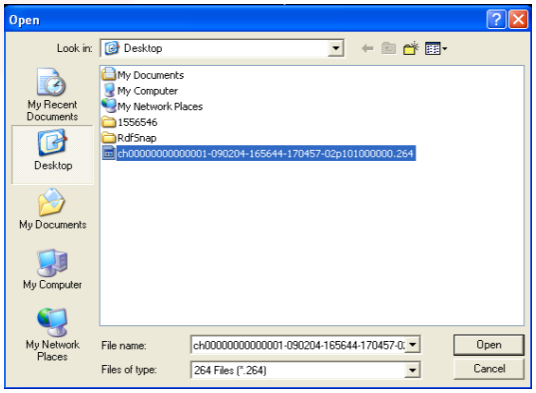
Please note that all files will be in an H264 format that can be converted to AVI using the Multi Player program that comes with the DVR or through the net-viewer program. Once converted, you can then view these files through any program that supports an AVI format.

## 5.2.6: Multi Player

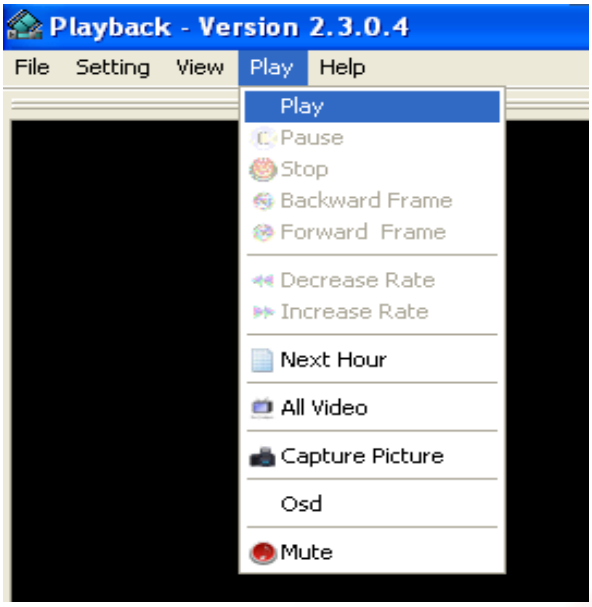
To open a file backed up to a DVD or USB drive, open the Multimedia Player program on your computer and click [File→ Local File] to find/select the backup file, and then click [open] button (Picture 25). This will generate a dialog box of all the files on your device or computer (should be .264 extension as illustrated in Picture 26).




**(Picture 25)**



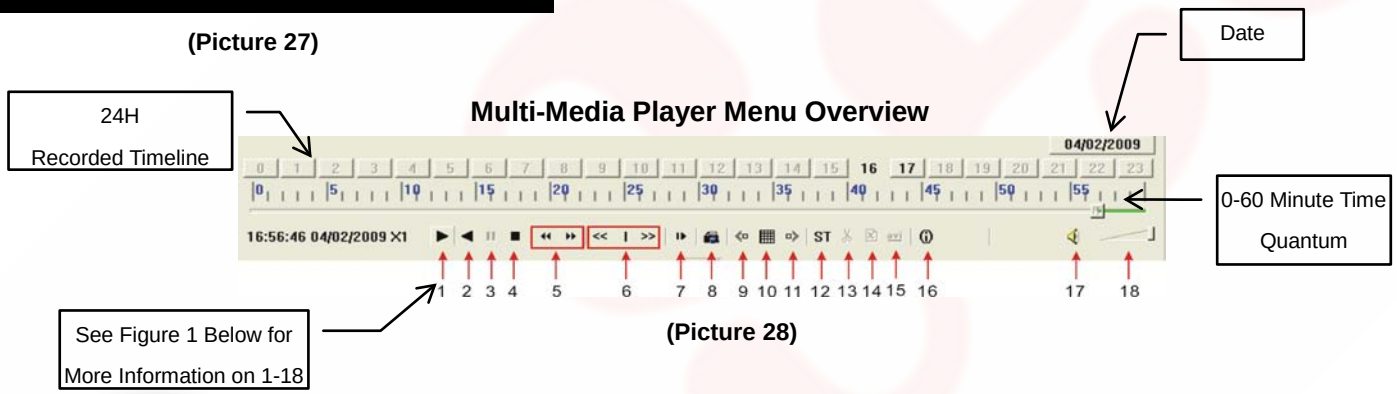

**(Picture 26)**




**(Picture 27)**

To play the file, click the Play menu on the toolbar of the multimedia player interface as shown in Picture 27. Doing this will generate a pop up window as illustrated in Picture 28.

Click the button on the bottom of the multimedia player and the [Play- ▶] button to start playing the file.




**(Picture 28)**

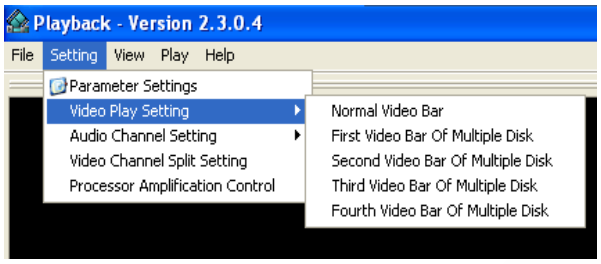
- Date is depicted in upper right hand corner as illustrated in Picture 28. Date represents the date current file selection was recorded.
- The 24H recorded time line under the Date represents the time line base for recorded material.
- The 0~60 Minute recording time quantum represents the minute base for all recorded materials. As depicted in Picture 28, the green bar represents the time length of the recorded material in the file you are currently playing.

**Recorded File Menu Commands**

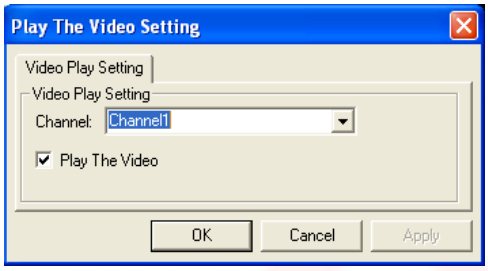
**(Figure 1)**

| | | | |
|---|---|---|---|
| 1 | Play | 10 | All the windows |
| 2 | Previous recording file | 11 | Add window |
| 3 | Pause | 12 | Start |
| 4 | Stop | 13 | Cut |
| 5 | Previous frame / Next frame | 14 | Delete |
| 6 | Slow play, Normal play, Fast Play | 15 | Convert AVI |
| 7 | Next Hour | 16 | On Screen Display |
| 8 | Capture picture | 17 | Mute switch |
| 9 | Reduce window | 18 | Volume adjust |

**Video Play Settings:** In your Multimedia player interface, go to the Setting menu on your toolbar. From there, go to Video Play Setting→Normal Video Bar (Picture 29). This will open up a dialog as illustrated in Picture 30 allowing you to choose from a drop down list of which channels to play. Make your choice from the options provided in the drop down list and click ☑ next to “Play the Video”. Click Apply then OK.

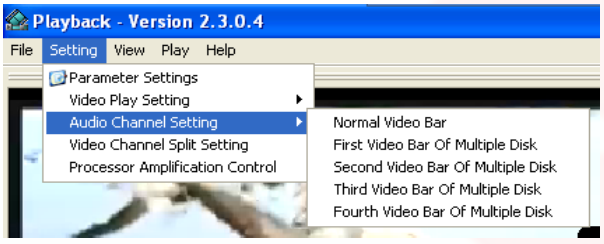



**(Picture 29)**

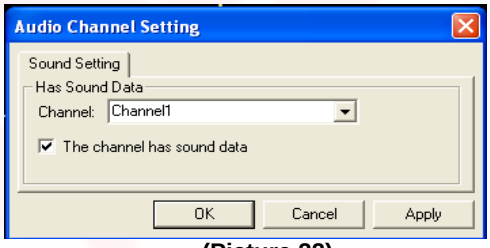



**(Picture 30)**

**Audio Settings:** In your Multimedia player interface, go to the Setting menu on your toolbar. From there, go to Setting→Audio Channel Setting→Normal Video Bar (Picture 31). This will open up a dialog as illustrated in Picture 32 allowing you to choose from a drop down list of which audio channels to play. Make your choice from the options provided in the drop down list and click ☑ next to "The channel has sound data". Click Apply then OK. Please note that these setting changes will not take effect until you re-start your multimedia player.




**(Picture 31)**




**(Picture 32)**

## 5.2.7: Device Management

**(Picture 33)**

Device management allows you to configure the controls for the Hard Disk Drive, External Alarm, PTZ Cameras, Mobile Phone Monitoring, and Motion Detection. The Device Management interface (Picture 33) can be accessed through the Main Menu interface illustrated in Picture 4 by clicking on the [Device] button. You can then click on the button of the device you wish to configure as illustrated in Picture 33 and customize them according to your desired specifications.

### 5.2.7.1: HDD Management

**(Picture 34)**

Once you install a new HDD in your system, you will want to click on the HDD icon in the Device Management interface (Picture 33) to configure its settings. Doing this will generate a pop up HDD management interface as illustrated in Picture 34. When you install a HDD, the system will automatically detect if it needs to be formatted. Should the disc need to be formatted, the status column in the HDD Management interface will indicate "Not format". If the status appears as "Normal", then your HDD does not need to be formatted.

The **ALL/FREE** column in your HDD Management interface indicates the total amount of allocated space available on the Hard Drive and the amount of unused space available on the Hard Drive.

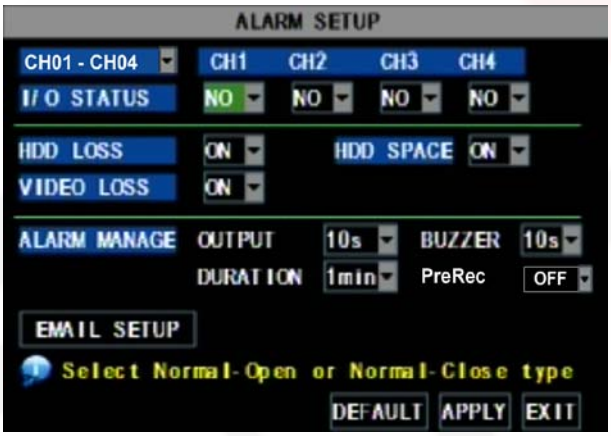
The **FREE TIME** column will tell you how much recording time you have left on your system based on the current settings and configuration details.

The **OVERWRITE** button in your HDD Management interface allows you to choose from a pull down list to enable your system to automatically overwrite the oldest recorded files on your system once the hard drive is full or to turn automatic overwrite off. Choose “Enable” or “Off” from the pull down list depending upon your preferences.

The **FORMAT HDD** button in your HDD Management interface formats your HDD by erasing all the data and files that are on the disc. Please note that you will not be able to record any files to your HDD until it has been formatted after it has been installed in your DVR system. Clicking on the FORMAT HDD button will generate a prompt which warns “Formatting HDD will erase all data. Are you sure you wish to Format?” Click the “OK” button at the bottom of that prompt to continue. You will then receive a “successful format” notification and the system will restart automatically.

**USB FORMAT:** Use this option to format USB devices.

### 5.2.7.2: Alarm Set




**(Picture 35)**

Clicking on the ALARM icon in the Device Management interface (Picture 33) will allow you to configure your ALARM settings. Once you click on the icon a pop up Alarm Setup interface as illustrated in (Picture 35) will appear and you will then be able to configure the various settings directly through here. Some of the configurations you will be able to configure through the Alarm Setup interface include alarm buzzer notification for video loss, HDD connectivity problems as well as your ability to be notified by email when an alarm is generated.

A more detailed description of the various tabs that appear on the Alarm Setup interface (Picture 35) are as follows, along with a more thorough account of the options associated with the pull-down menus associated with them:

- The **I/O STATUS** tab allows you to choose from a drop down list to configure each Channel’s sensor alarm settings. Choose the “Normal-Open” option on the drop down list or “Normal-Close” depending on the type of sensor you are using. Choose the “Off” option if you are not using external alarm sensors and are using the DVR’s built in motion detection. Using your DVR’s built in motion detection settings allows you to begin recording in the event motion is detected.

  Motion detection alarm notification is designed to notify you that there has been some movement detected by your cameras. You can adjust the sensitivity of your cameras to suit the needs of your actual application environment should you need to take into account such things as movement that is ongoing and not obtrusive.

- The **HDD LOSS** tab allows you to choose from a drop down list of “On” and “Off”. Choosing the “On” option will generate an alarm buzzer when the connection to your HDD has been lost, your system does not detect a connected HDD or your system detects that your HDD needs to be formatted. Choosing the “Off” option turns this buzzer notification off.

  The HDD Loss alarm notification is designed to notify you when your system has its connection with your HDD or that there is some sort of breach which has occurred between your HDD and your DVR system.

- The **HDD SPACE** tab allows you to choose from a drop down list of “On” and “Off”. Choosing the “On” option will generate an alarm buzzer when the HDD is running out of storage space. Choosing the “Off” button disables the alarm notification when your HDD is running out of storage.

- The **VIDEO LOSS** button allows you to choose from a drop down list of “On” and “Off”. Choosing the “On” option will generate an alarm buzzer when video loss occurs. Choosing the “Off” button disables the alarm notification when video loss occurs.

  A Video Loss notification is designed to notify you that there has been some sort of breach that has occurred that is causing your system to lose video feed such as camera damage, disconnected camera cables or a power supply malfunction.

- The **ALARM MANAGE** tab allows you to choose from a drop down list to determine the alarm output (0s,10s,20s,40s,60s), alarm duration (0s, 30s, 1minute , 2minute , 5minute） and buzzer duration (0s,10s,20,40s,60s).

- The **EMAIL SETUP** button allows you to configure your system to send you an email when motion has been detected by your system. To configure your email notification settings, click on the EMAIL SETUP button and you will generate an EMAIL SETUP interface as illustrated in Picture 36. In the EMAIL SETUP interface, choose the ON option in the pull down menu. Choosing the “On” option will generate list of options to choose from to customize your SSL, SMTP PORT, SMTP server, Send and Deliver Servers and your email account password. (Picture 37). Your SSL button turned to “On:” will allow an extra layer of protection to keep your email account and password from being hacked.

**(Picture 36)**

**(Picture 37)**

You can obtain the correct settings for your SMTP server and the SSL configuration of your mailbox at your mail server’s website (such as G-Mail, Yahoo, or others). Brief explanations of the information you need to obtain from your Email server are as follows:

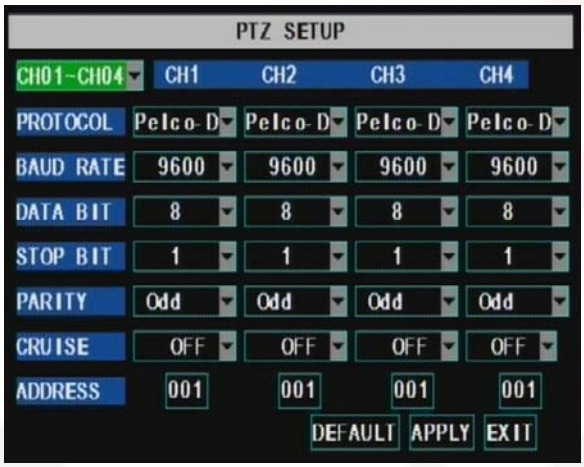
**SMTP Port:** indicates sender port of SMTP server. Generally the SMTP port value is 25. There are exceptions however and you should check with your Email server's website.

**SMTP Server**: indicates server address you use.

**Sender Email:** indicates sender's email address. The email address should be consistent with the server you use. That is to say, when you use email address – aaa@gmail.com, the according server should be smtp.gmail.com.

**Receiver Address:** indicates receiver's email address. The email address is used to receive image transmitted from motion detection alarm of DVR. Please clear the images you have received as soon as possible to avoid overloading your email account.

### 5.2.7.3: PTZ Setup




**(Picture 38)**

Clicking on the PTZ Setup icon in the Device Management interface (Picture 33) will allow you to configure your PTZ settings. Once you click on the icon a pop up PTZ Setup interface as illustrated in Picture 38 will appear. Select the channel you want to control in the top row of the PTZ interface screen and set the PTZ protocol from the protocol drop-down menu (Pelco-D or Pelco-P); the Baud Rate from the baud rate drop down menu (1200, 2400, 4800 or 9600); the Stop Bit rate from the stop bit drop down menu (1 or 2); the Parity Check from the parity drop down menu (None, Odd or Even Mark Space); and the Address Code and Cruise status accordingly. Please note the above mentioned channel settings must match the settings of the PTZ camera.

### 5.2.7.4: Mobile Setup

**(Picture 39)**

Clicking on the MOBILE icon in the Device Management interface (Picture 35) will allow you to configure your Mobile Phone settings. Once you click on the icon a pop up MOBILE Setup interface as illustrated in Picture 39 will appear.

User Name: indicate user name of DVR.
User password: indicate user password of DVR
Server port: Mobile monitoring port. Setting range is between 1024 and 65535. Default setting is 18600.

**Note:** Connect the DVR to the Internet before setting the DVR port number and make sure the server port number is not the same as the network menus.

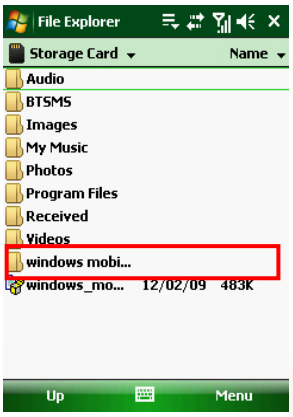
### 5.2.7.5: Mobile Phone Access

The DVR is currently compatible with mobile phones running Windows Mobile, Symbian operating systems and iPhones on 3G networks. Before you can access the DVR from a mobile phone you need to setup the Network Configuration on the DVR. Refer to Section 5.2.3 Network Setup for complete directions for how to do this. You also need to go to the Main Menu then Devices then Mobile and enter your user name and password, and set the Server Port to 18600. This port also needs to be forwarded to the IP address of the DVR along with the ports from 5.2.3 Network Setup.

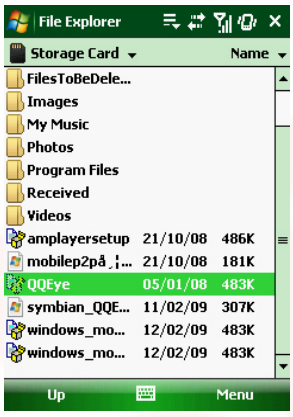
**Please note that you can only see one channel at a time when viewing from a mobile phone. The speed of the display depends on the speed of the internet connection.**

**When accessing your DVR from a mobile phone using a Windows Mobile operating system, follow these steps:**

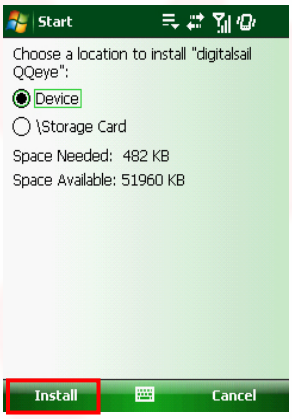
1. Webcam installation: Begin by installing the webcam program that is included on the CD that comes with the DVR by copying the "QQeye.CAB" file to the mobile phone. You can do this by attaching the mobile phone to a computer and copying the file from the CD to the memory card on the phone, or by copying the file from the computer to the phone's memory card through a memory card reader or through a Bluetooth connection.




**(Picture 40)**



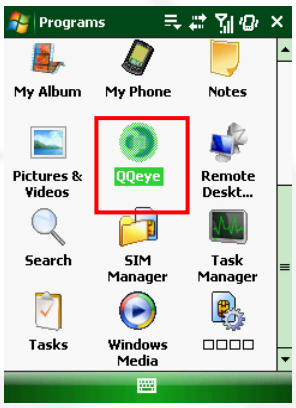

**(Picture 41)**



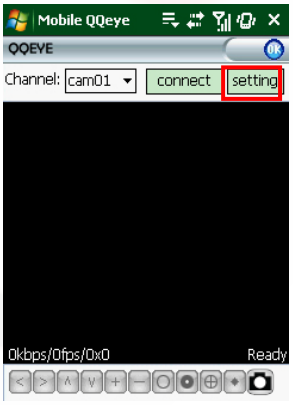

**(Picture 42)**

2. Click the windows mobile folder (red box in Picture 40) and choose the file "QQeye" (Picture 41). Selecting the file generates a dialog box depicted by Picture 42. The default file location as shown in Picture 42 is "Device"; however, you can also choose the "Storage Card" option to save it to a memory card.

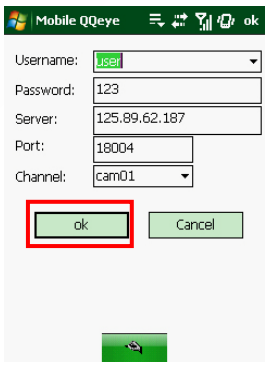
3. Choose your storage location and click the [Install] button (red box in Picture 42) to start the installation.




**(Picture 43)**




**(Picture 44)**




**(Picture 45)**

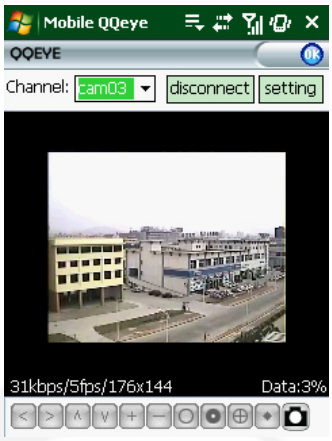
4. Once installation is complete, click on the QQeye icon in your Programs menu illustrated in Picture 43 to start the QQeye program.

5. Once in the program, click on the [Setting] button in the upper right hand corner of your QQeye program dialog box (Picture 44), and you will be able to access the Mobile QQeye user settings dialog box shown in Picture 45. The Following information is required to set this up correctly:

**User name:** same as user name setup in DVR under Menu, Devices, Mobile
**Password:** same as password setup in DVR under Menu, Devices, Mobile
**Server address:** Public IP address of router DVR is connected to.
**Web port:** Same as the Server Port you setup in the DVR, it needs to be forwarded to the IP address of the DVR, setting range is between 1024 and 65535, the default setting is 18600. Note: this port is in addition to the ports used for standard remote access.
**Channel:** Select the channel from the DVR you want to monitor and click [OK] button (red box in Picture 45).

6. Once you configure your settings (Picture 45) and have hit the OK button, you will then be taken back to the Main screen (Picture 44) and from here, you can choose the camera you want to view from the pull down menu.

7. Click the [Connect] button (Picture 44) in the main menu and you will see an image of the live feed from your DVR (Picture 46). Clicking the [Disconnect] button will discontinue your video feed.



**(Picture 46)**

8. The [Setting] button on your main menu interface (Picture 44) will allow you to modify the display image and allow you to choose from a variety of display modes including: Normal and full-screen.

9. The main menu interface (Picture 44) also displays the network status information, network transmission speed, frame rate and image resolution in the lower left hand corner of your screen (Picture 46). The buffer percent and connection errors are shown in the bottom right hand corner of the screen (Picture 46).

From left to right, the buttons on your main menu interface work with your PTZ camera as follows:

Navigate video image Left, Right, Up, Down

Zoom In and Zoom Out

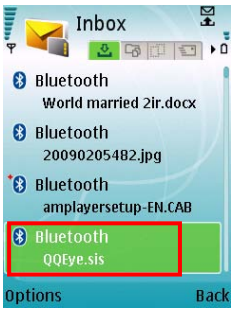
Increase or Decrease Focus

Increase or Decrease Brightness

Snap to Capture Screen Image

**When accessing your DVR from a mobile phone using a Symbian operating system, follow these steps:**

1. First you need to copy the "QQeye.CAB" file included on the Setup CD disk to your mobile phone. There are two different ways you can do this:

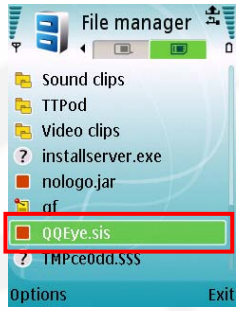



**(Picture 47)**

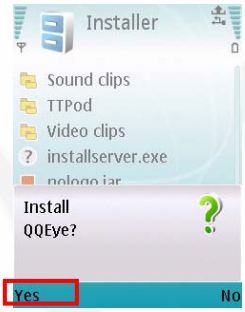
   a. You can copy the file from the installation CD to your computer. Once you do this, you can then transfer that file from your computer to your phone's memory card using a memory card reader that is connected directly to your computer.
   b. You can copy the file from the installation CD to your computer and then use a Bluetooth connection to send this file to your phone's Inbox (Picture 47).

2. Once you have copied the QQeye program to your phone, you can then click on it to begin the installation process (Picture 48). Once the installation process has been initiated, you will receive a prompt asking you if you would like to install the QQEye program (Picture 49). Click the Yes button on the lower left hand side of the prompt and continue the installation process as instructed.

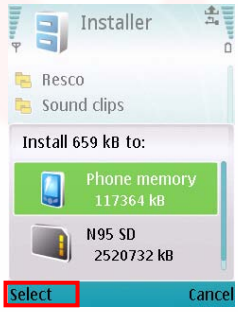
3. When prompted for an install location as illustrated in Picture 50, choose "Phone Memory" by clicking on it and hitting the Select button on the lower left hand side of the prompt screen. You will then receive an installation status screen and an "Installation Complete" message (Picture 51) on your screen once the installation process is complete.



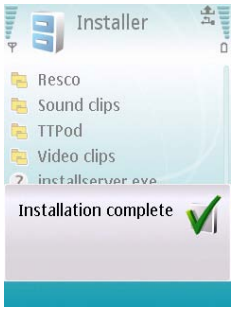

**(Picture 48)**




**(Picture 49)**



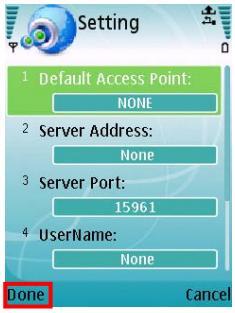

**(Picture 50)**




**(Picture 51)**

4. After you have installed the software to your mobile phone, you can then go to the Applications folder of your phone and select the "QQEye" Program as shown in Picture 52. Click on Open at the bottom of your screen and the settings menu will appear as illustrated in Picture 53. Click the Done button at the bottom of that screen and you will then see an image of your live video feed appear as illustrated in Picture 54.

**(Picture 52)**




**(Picture 53)**

**(Picture 54)**

**The following information is required to set up access to your Symbian based mobile phone:**

**Default Access Point**：Input the access point. System default for the access point is GPRS connection.
**Server Address**：Input the public IP address of the router the DVR is attached to (refer to section 5.2.3 Network Setup this product manual).
**Server Port**：Same as the web port setting on the DVR, you need to forward this port from the Router to the DVR. Setting range is between 1024 and 65535, the default setting is 18600. Note: this port is in addition to the ports used for standard remote access.
**User Name:** Same as user name setup in DVR under Menu, Devices, Mobile
**Password**：Same as password setup on DVR.

**When accessing your DVR from an iPhone, follow these steps:**

1. Ensure that your DVR is running the latest Firmware version 090706 or higher. Go to the Main Menu of your DVR and click on the Devices Icon, then the Mobile icon (Picture 33).
2. Set your user name and password (i.e., admin/admin), and set your Port to 18004.
3. From the PC, forward port 18004 of the router to the IP address of the DVR.
4. Once you have set your DVR and forwarded your port, go to your iPhone and go to the APP Store. Search the App Store for APlayer, click the FREE button to begin the download (note that you must have an iTunes account to download applications).
5. Once you have downloaded the APlayer application, click on the icon on your phone to access the APlayer program. On the bottom right hand corner of your program screen, click on the settings button to access the IP and port information.
6. In your settings dialog box (Picture 56), use your Public IP to populate the Server IP field and ensure that the port is set to 18004. Use the same User ID as the one you use for your DVR.
7. Once you have set your phone up as directed in the previous step, you will see a control screen on your iPhone which enables you to view your live feed, adjust various view settings and access the individual cameras set up through your DVR (Picture 57). Click the Play button on your APLAYER to connect to your DVR and you will get a live screen feed pop up as illustrated in Picture 57. You can choose to view the various cameras that are connected your DVR system by pushing on the number 1-4 on this main screen (Picture 57).

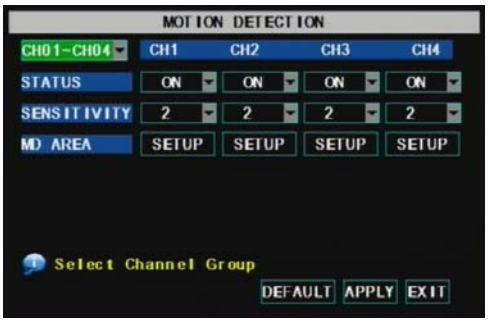
**(Picture 55)**

**(Picture 56)**

**(Picture 57)**

If you have an 8 camera system you would click on the down arrow in the bottom row of your main screen (Picture 57) to view the buttons to access the next 4 cameras. If you have a 16 camera system, continue to click on the down arrow to access the rest of the cameras. If you like this application, please leave positive feedback at the App Store!

### 5.2.7.6: Motion Detect

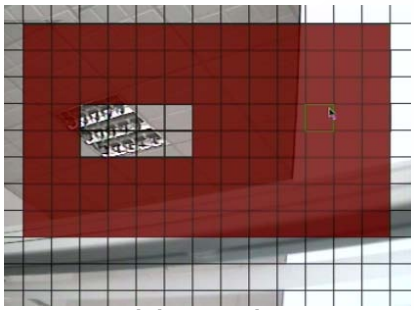



**(Picture 58)**

Clicking on the MOTION icon in the Device Management interface (Picture 33) will allow you to configure your Motion Detection settings. Once you click on the icon a pop up MOTION DETECTION Setup interface as illustrated in Picture 58 will appear and you will be able to configure the various settings directly through here. The [Motion detection] Menu has three sections, including Channel Status, Sensitivity and Motion area.

**Channel STATUS**: This option allow you enable motion detection on any channel.

**SENSITIVITY:** This option allows you to set sensitivity level of motion detection from 1 to 4 with 4 being the most sensitive.



**(Picture 59)**

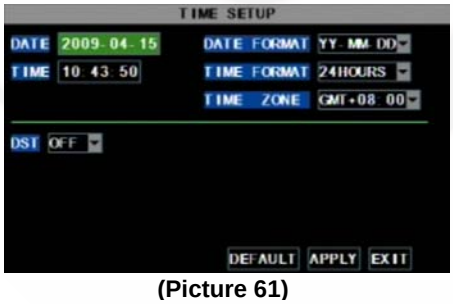
**MD AREA:** This option allows you select the area you want to be sensitive to motion. The area is separated into a 13*10 grid as depicted in Picture 59. When any object moves into the area you have designated to protect, recording will be triggered. You can choose which areas to protect by clicking on the individual squares of the grid (as illustrated by the red blocks chosen in Picture 59). Motion triggered recording will not occur in the area outside of the chosen grid (as illustrated by the semi-transparent blocks in Picture 59).

## 5.2.8: System Function

**(Picture 60)**

The Main Menu interface (Picture 60) allows you to access the System Setup menu by clicking on the System icon. The System Setup menu gives you access to these sub-menus to configure their settings individually: Time Set, User Password, Audio/Video Setting, Language select, System Info and System Maintenance.

### 5.2.8.1: Time Set

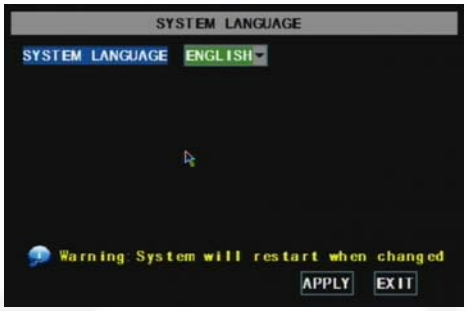



**(Picture 61)**

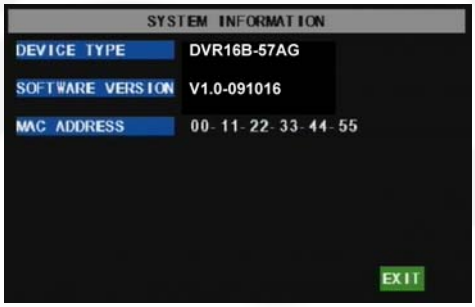
Click the [Main menu→System→Date/Time] in turn to Enter into the time setup menu shown as Picture 61. In the Time Setup menu, you can modify your system date and time; set the date/time and time zone format, and enable daylight savings time.

**(Picture 62)**

**(Picture 63)**




**(Picture 64)**




**(Picture 65)**

**(Picture 66)**

### 5.2.8.2: Password

Click on [Main menu→System→Password] to adjust your system's password settings. This will generate a Password Setup dialog box that will allow you to enable or disable password protection and also set up an administrator password (Picture 62). Turning your Password Enable setting to "On" will generate a User Password field and Administrator Password field to populate. The password option supports up to 6 characters.

### 5.2.8.3: Video Setup

Click on [Main menu→System→VID] to adjust your system's video preferences. This will generate a Video Setup dialog box (Picture 63) where you can set your Video System settings to PAL or NTSC (NTSC is standard in the USA), adjust your Video Port, choose your Dwell Time and set your Sequence.

**Video System:** Allows you to select Camera system (choose NTSC).
**Video Port:** Choose from "Live Out" for real-time display mode.
**Dwell Time:** Choose from 0s to 300s.
**Sequence:** Allows you setup display position of any channel (Virtual).
**VGA Resolution:** Allows you to choose from 1280x1024, 1024x768 or 800x600 for the VGA out port.

### 5.2.8.4: Language

Click on [Main menu→System→Language] to adjust your system's Language preferences. The [System Language] menu will appear as illustrated in Picture 64. Choose the language you want to use on your DVR from the drop down menu then click [APPLY] button. The selection will be available after system Auto restarts.

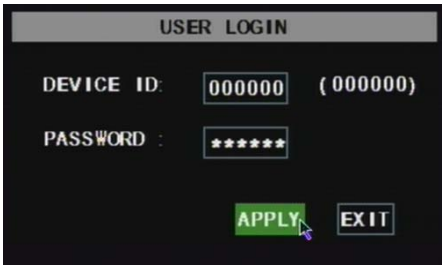
### 5.2.8.5: Info

Click the [Main menu→System→Info] to view your system's device type, software version and your MAC address as illustrated in Picture 65.

### 5.2.8.6: System Maintenance

Click the [Main menu→System→Maintain] to access the System Maintain menu as shown in Picture 66. This menu allows you to reset the DVR to factory default settings, update system software (firmware), and set system auto-maintenance. Setting your Auto Maintain option to "On" in the drop down menu will set your DVR to automatically check for updates on restart and you can also update your system manually by clicking on the [System Update] button. Please note that you must click on the [Apply] button in order for any changes to take effect.

## 5.3: Menu Lock




**(Picture 67)**

Your DVR is equipped with a Menu Lock feature to ensure that your settings and configurations are tamper-proof. Right clicking on your mouse and clicking on [Menu] the [Lock] from the pop up menu will lock your DVR and you will be required to enter a password to unlock this feature as illustrated in Picture 67). Please note that only the System Administrator has full access and authority over Main Menu operations.

## 5.4: Video Search

Right clicking on your mouse and clicking on the Video Search option from your pop-up menu will allow you to search through your recorded files and playback recordings. For more information on searching through files, refer to Section 5.24.

## 5.5: Multiple Channel Display

You can view your video in a variety of play modes including Single Channel Display, PIP Display, Dwell Time Display and Multi Channel Display. In Multiple Channel Display mode, you can choose from a predetermined range of Channels to display including the following:

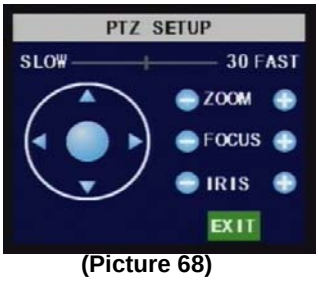
**First Quad:** Allows you to display (CH1-CH4)
**Second Quad:** Allows you to display (CH5-CH8)
**Third Quad:** Allows you to display (CH9-CH12)
**Fourth Quad:** Allows you to display (CH13-CH16)
**First Nine CHs:** Allows you to display (CH1-CH9)
**Second Nine CHs:** Allows you to display (CH10-CH16)
**Sixteen CHs:** Allows you to display (CH1-CH16)

## 5.6: PTZ Control

As dicussed in Section 5.2.7.4, you have the ability to connect a PTZ camera to your DVR system. To operate the PTZ camera once you have connected it to your system and configured it correctly following the directions in 5.2.7.4, you will need to access the PTZ Camera interface illustrated in Picture 69. To do this, right click on your mouse and click on the PTZ option from your pop-up menu. From the PTZ Camera interface, you can Zoom in and out, adjust the camera Focus and increase or decrease the brightness of your image. Click Z+&Z- keys to zoom In or out, click F+&F- keys to control camera focus and click I+&I- to adjust the brightness.

**Cruise Setup**

Open the auto cruise function on the PTZ setting menu to configure your auto cruise settings as illustrated in Pictures 68 and 69. The functions associated with each of the buttons on the Cruise Setup interface are as follows:




**(Picture 68)**

**(Picture 69)**

**Channel Select:** Allows you select the channel with the PTZ camera.
**Total:** Allows you to set the bit quantity.
**Cur Point:** System has default starting (current) cruise point as 01. You can use this option to set additional cruise points.
**Stop Time:** Sets the pause time at each stop.

**GOTO：**Allows you to go to specific preset points.

**Set:** Saves the preset point. After setting channel and setting the position by adjusting PTZ direction key you click [Set] button to setup the pre-set point. Please note that you have to click the [Save] button for the set up to be complete.

**Clean:** Removes changes you made to the settings.
Note: this DVR model supports up to 100 pre-set points but you may be limited to the number of pre-set points your PTZ camera allows.

## 5.7: PIP Mode

Right clicking on your mouse and clicking on [PIP Display] from the pop up menu will allow you to enter into PIP display mode. The various modes of PIP display your DVR supports are as follows:

**1x1 Display Mode:** One full screen video image and one small screen image shown on the main display.
**1x2 Display Mode:** One full screen video image and two small screen images shown on the main display.

## 5.8: Mute

Right clicking on your mouse and clicking on [Mute] from the pop up menu will allow you to turn the sound off on your DVR system.

## 5.9: Record

Right clicking on your mouse and clicking on [Start Record] from the pop up menu will allow you to start manual recording.

## 5.10: Stop Recording

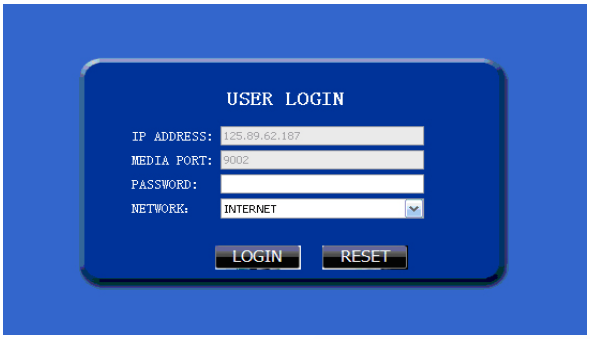
Right clicking on your mouse and clicking on [Stop Record] from the pop up menu will allow you to stop manual recording.

## 5.11: Start Cruise

Right clicking on your mouse and clicking on [Start Cruise] from the pop up menu will allow you to cruise set points with your PTZ camera once you have configured your desired cruise points.

# Chapter 6: Net-Viewer Program

## 6.1: Enable Plug-Ins and Log-In to Net-Viewer




**(Picture 70)**

Refer to Section 5.2.3.5 to ensure that your pop-up blockers are turned off and your ActiveX is enabled prior to running the Net-Viewer program. Once you have disabled your pop-up block option and enabled ActiveX, open an IE Browser window and input the IP address and web port of your DVR (i.e., http://172.18.6.202/) into the address bar. This will generate a Net-Viewer log in screen (Picture 70) prompting you to input the necessary information required to view a live video feed from your DVR system. If you are experiencing difficulties initiating the log in screen, make sure your browser's safety level or firewall settings are not set too high. Refer to section 5.2.3 Network Setup to ensure that your network configuration is correct, your system ports are forwarded correctly and ActiveX is enabled. Once you have entered in the correct information, you will be able to view your DVR remotely through the Net-Viewer program and you will see a live feed similar to the one depicted in Picture 71.

## 6.2: Main Interface of Net-Viewer

**(Picture 71)**

Refer to Section 6.3.2 for a more detailed description of the actions associated with the specific buttons of the Net-Viewer illustrated above (Picture 71). However, a general description of the buttons is as follows:

1 – Menu Bar

2 – PTZ Panning Options

3 Through 4 – PTZ View Options

5 Through 9 – Live Play Controls

## 6.2.1: Menu

In the Net-Viewer Main Interface window illustrated in Picture 71, the Menu toolbar is on the top left side of the screen. The toolbar includes a button for [Live] video, the option to [Replay] video, access to your [Setup] controls and a [Logout] button.

### 6.2.1.1: Live

As shown the Net-Viewer Main Interface window illustrated in Picture 71, the [Live] button will allow you to display a live video feed as illustrated in Picture 71. The live display mode will appear upon logging in to the Net-Viewer program.

### 6.2.1.2: Replay

**(Picture 72)**

As shown the Net-Viewer Main Interface window illustrated in Picture 71, the [Replay] button allows you to replay previously recorded footage and display it in your viewing window (Picture 72). To find previously recorded footage, select the date from the menu and choose the file from the file list that will be displayed once you click on your desired date (Picture 72).

The buttons at the bottom of your Net-Viewer interface screen are as follows:

**Play Button:** [Play]/[Pause] recorded footage
**Stop Button:** Stop playing recorded footage
**F.F. Button:** Fast forward through recorded footage
**Slow Button:** Decrease playback speed of recorded footage
**Next Frame:** Playback recorded footage frame by frame
**264 TO AVI Button:** Convert file from H.264 to AVI

### 6.2.1.3: Setup

As shown the Net-Viewer Main Interface window illustrated in Picture 71, the [Setup] button will allow you to enter into a sub menu which will allow you to configure the controls for your recording preferences, alarm preferences, PTZ control configuration and your network and system setting menus. The various tabs within this Setup sub menu are enumerated as follows:

**(Picture 73)**

#### ① Record

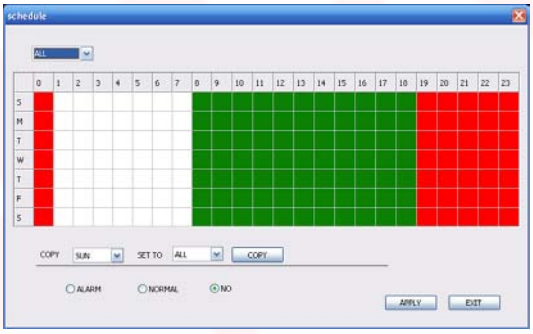
The [Record] tab in the Setup menu allows you to control the specific channels you wish to record (Picture 73). You are able turn each channel off individually and adjust the parameters of your recorded images such as the quality and resolution. Audio recording controls can also be controlled through the [Recording Mode] menu. Please note that changes to your resolution settings cannot be done remotely and that they must be made through the DVR directly as it needs to be restarted in order for the changes to take effect.

## ② Alarm

The [Alarm] tab in the Setup menu allows you to control the alarm options on the individual channels remotely via the Net Viewer program. Clicking on the drop down list of the I/O Alarm option for each Channel on the [Alarm] tab (Picture 74) will generate an Alarm Schedule interface which will allow you to configure the specific parameters of your alarm scheduled recording (Picture 75). Refer to Section 5.2.2 of this User Manual for a more thorough explanation of alarm triggered recording.

Other options that you can configure on the [Alarm] tab of your Setup menu include the parameters of motion detect recording, video loss notification, HDD space notification, HDD loss notification, and your alarm output and record time settings. For more details on how to configure the options of these specific features, refer to Section 5.2.7.2 of this User Manual.

**(Picture 74)**




**(Picture 75)**

**(Picture 76)**

## ③ PTZ Control

The [PTZ] tab in the Setup menu (Picture 76) will allow you to control the specific options related to your PTZ camera such as the PTZ Camera Protocol, PTZ Camera location (address), Baud Rate and Data and Stop Bit parity preferences. For a more thorough explanation of your PTZ camera controls, please refer to Section 5.2.7.4 of this User Manual.

**(Picture 77)**

## ④ Network

The [Network] tab in the Setup menu (Picture 77) will allow you to control the specific network configuration options. To ensure proper Network configuration settings, you should refer to Section 5.2.3 of this User Manual.

(Picture 78)

### ⑤ Setting

The [Setting] tab in the Setup menu (Picture 78) will allow you to control the Net-Viewer program settings. From this tab, you can set the path to where you would like to save screen capture images and other files by clicking on the "…" button. You are also able to configure other Net-Viewer options through this tab such as Internet Bandwidth, Internet Password Enabling and Daylight Savings Time.

(Picture 79)

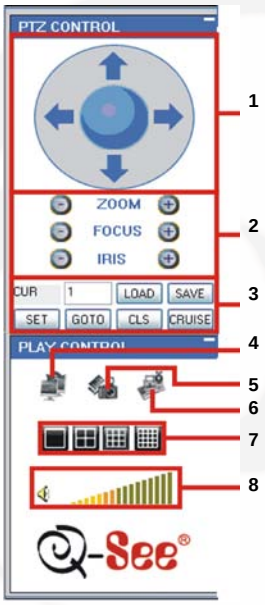
### ⑥ Host Info

The [Host Info] tab in the Setup menu (Picture 79) will allow you to check on the amount of space and recording time you have left on your HDD, tell you about the Net Viewer software version you are using and list your MAC Address.

### 6.2.1.4: Logging Out of Net-Viewer

To log out of the Net-Viewer program, go to the main interface window illustrated in Picture 72 and click on the [Logout] button on the menu bar.

## 6.2.2: PTZ and Live Play Controls




(Picture 80)

1. **PTZ Panning Direction:** Controls the panning direction of your PTZ Camera
2. **Zoom, Focus and Iris:** Increase or decrease the zoom, focus or brightness of your picture
3. **Bit Rate Settings:**
   - **CUR:** Displays current bit rate. You can set the bit rate manually by inputting your desired rate in the accompanying box
   - **LOAD:** Reloads the last saved bit rate
   - **SAVE:** Saves the current bit rate
   - **SET:** Allows you to choose from a preset bit rate setting (for more information, refer to Cruise Setup in Section 5.7
   - **GOTO:** Allows you to go to a specific preset bit rate
   - **CLS:** Clears the last saved bit rate setting
   - **CRUISE:** Allows you to choose from a preset bit rate setting (for more information, refer to Cruise Setup in Section 5.7
4. **Live Display:** Turns the Live Display On or Off
5. **Screen Capture:** Captures a screen image and saves it to your PC
6. **Record:** Record images to your DVR system from Net Viewer
7. **Channel Display Grid:** allows you to choose from full screen, 4-Channel, 8 Channel and 16-Channel view mode
8. **Volume Control:** Adjusts the audio level of your volume

# Chapter 7: Specifications

| FEATURE | PARAMETER | SPECIFICATION |
|---|---|---|
| Video/ Audio | Video System | NTSC or PAL |
| | Compression Format | H.264 |
| | Audio Compression Format | 8kHz*16bit ADPCM |
| | Display Resolution | D1:704×576(PAL) 704×480 (NTSC) |
| | Playback Resolution | D1/HD1/CIF |
| | Recording Frame Rate (Shared) | PAL: 100fps (D1)/ 200fps (HD1)/ 400fps (CIF)<br>NTSC: 120fps (D1)/ 240fps (HD1)/ 480fps (CIF) |
| | Display Mode | Support Dwell time display, PIP and Zoom in/out in live mode |
| Recording | Recording Mode | Always / schedule / manual /motion detection / sensor triggered /Net-viewer recording |
| | Record Pack Time | 15/30/45/60 min. adjustable |
| | Playback Mode | PLAY /SLOW /FWD/Frame by Frame |
| | Backup | USB flash drive, Removable USB HDD and network backup |
| Alarm | Alarm Type | Motion/ sensor triggered/Video loss/HDD Space/HDD Loss |
| Network | Network Function | Supports mobile phone surveillance, Live monitoring and remotely setting DVR parameters |
| | Network Protocol | Supports TCP/IP, DHCP, UDP, DDNS, PPPOE network Protocols |
| System Ports | Video Input/Output | 16-CH Input / 2-CH Output; 1-CH VGA output |
| | Audio Input/Output | 4-CH Input / 2-CH Output |
| | Alarm Input/Output | 16-CH Input / 1-CH Output |
| | Hard Drive | Supports up to 2 SATA HDDs up to 1TB each |
| | Ethernet | One RJ-45 10M/100M self-adaptable Ethernet interface |
| | USB Port | Support Mouse, USB flash backup and upgrade, USB HDD |
| | PTZ Control | Built-in RS-485 port, supports PELCO-P & PELCO-D |
| General Parameter | Power Adapter | DC 12V;8.33A |
| | Working Temperature | 10℃~+40℃ (50°F~+104°F) |
| | Working Humidity | 10%~90% |
| | Power Consumption | 10-15 W |
| | Dimension (W x D x H) | 430×380×70mm(17x15x2.75 in.) |

# Chapter 8: Appendix

## 8.1: Operation Function Table

| TYPE | TITLE | DESCRIPTION |
|---|---|---|
| Principle Setting | Time Setting | Setting system date, time and format and day-light saving time setting |
| | Language Select | Setting system language |
| | Ch Setting | Setting CH title and position; adjusting image color parameter value; setting CH display to ON / Off and time display/recording time overlaying to On/Off. |
| | Rec. Setting | Setting image quality, resolution, volume, recording mode an pack time |
| | Rec. Search | Time based search, channel based search and rec. mode based search. |
| | Rec. Playback | Specified time playback, scheduled playback, file list playback |
| | Playback Mode | Play, play frame by frame, multi-speed forward and multi-speed rewind |
| | File Backup | USB flash disk and removable HDD backup, DVD recorder backup and network download backup |
| | HDD Manage | Check HDD status, usage space, setting HDD auto-overwrite |
| | Vid/Aud Setting | Adjust VGA resolution, select system and volume control |
| Advanced Setting | User Password | Setting or modifying user password |
| | Alarm Setting | Setting HDD lost, HDD space, video loss, I/O status, alarm management and Email alarm |
| | Motion Detection | Setting on/off status of MD; select sensitivity and setting motion detection area. |
| | PTZ Control | Selecting Channel and setting PTZ protocol, baud rate and PTZ address for the Channel |
| | Mp Monitor | Setting user name, password and server port. |
| | System Maintenance | Setting system auto maintenance, maintenance time regularly, system upgrade, ex-factory default value recovery and manual restart system |
| | Display Control | PIP, ZOOM IN/OUT, Multiple Images display, Dwell time display and Cruise display |
| Network Setting | Network And Port Setting | Selecting network mode and setting net-viewer port, web port, DNS and DDNS parameters |
| Network Function | Live Display | Real time video input remotely |
| | Remote Recording | Setting recording mode and status of DVR remotely |
| | Remote Playback | Check local recording history via network |
| | PTZ Control | Remotely control PTZ camera, position, focus, zoom and iris etc. |
| | Parameter Set of DVR Remotely | Setting local CH display, recording, alarm, PTZ control parameter value via network |
| | Network Download | Backup recorded files via network |

| | | | |
|---|---|---|---|
| Auxiliary Function | System Info | Check device model, software version and MAC address | |
| Menu Button | Confirm | The button allows you save the modification of parameter value. | |
| | Recover Default | The button allows you recover default value of current menu or system | The option will be effective once confirmed |
| | Exit | Exit current menu | |
| Basic Setting | Time Setting | Adjust system time | |
| | HDD Manage | Format HDD | The option will be effective after restart. |
| | Net Setting | Set network type and web port (except of PPPoE, other type need forward web port to router of DVR) | The option will be effective after restart. |
| | System Info | Modify MAC address | |
| | Mp Monitoring | Set relative parameters | |
| | Other | PTZ setting, Recording set and Language select etc | |

## 8.2: Setting up Alarm Record Mode

Please note: "⊥" means "Alarm On Not Recording"; "AMR" means "Alarm Recording"; "NLR" means "normal recording"; and "NOR" stand for " No Recording". Once alarm is triggered, alarm icon will occur, and when many alarms are triggered, alarm remarks will occur on the screen.

| Recording Alarm Setting | | Alarm Icon | Recording Mode | | | | |
|---|---|---|---|---|---|---|---|
| | | | Power On | Scheduled | | | Manual |
| | | | | AMR | NLR | NOR | |
| **Alarm Mode** | MD alarm | M | AMR | AMR | NLR | ⊥ | NLR |
| | I/O triggered alarm | I | AMR | AMR | NLR | ⊥ | NLR |
| | HDD loss, HDD space full | H | ⊥ | ⊥ | ⊥ | ⊥ | ⊥ |
| | Video Loss | Video Loss | ⊥ | ⊥ | ⊥ | ⊥ | ⊥ |

When DVR is in recording mode, [R] icon or [M] icon will appear on the screen. But when there are [I] icon and [M] icons on the screen it indicates a motion alarm was triggered. When [H] icon appears on the screen, that mean a hard drive alarm has occurred.

## 8.3: Troubleshooting

Q: What can I do if the system does not detect the HDD?
A: Check the data and power cables and make sure they are securely connected.

Q: I have changed the password but do not remember the new password. How can I access the system?
A: If you forget the system password, enter 519070 into the password field to reset the password

Q: I am not getting any video signal on the DVR. What is wrong?
A: Check to make sure the cables are securely connected to the BNC ports on the DVR. You can also try another cable to make sure there is not a problem with the cable. Make sure you have selected the correct video format for your country (NTSC is standard USA format).

Q: Can the DVR have problems if it gets too hot? How can I prevent my system from over-heating?
A: The DVR has a fan to help it dissipate heat while it is working. Please place the DVR in a place where there is good air circulation and away from high temperatures to increase the stability and product life of your DVR.

Q: My remote control does not work when the DVR is in Live mode but the front panel buttons are working. What is wrong?
A: Make sure nothing is blocking the LED on the remote or the DVR. If both are ok, check the batteries of your remote.

Q: Can I use the hard drive from my PC in the DVR?
A: You can if the hard drive is the same type and the size supported by the DVR. However, once you install the hard drive in your DVR, it will be formatted for use in the DVR and will not be read by your PC.

Q: Do I have to stop recording to playback files on the DVR?
A: No you do not have to stop recording, the DVR will support both functions at the same time.

Q: Can I erase files from the hard drive of the DVR?
A: You can not erase individual files. You would need to format the hard drive which will erase all of the files.

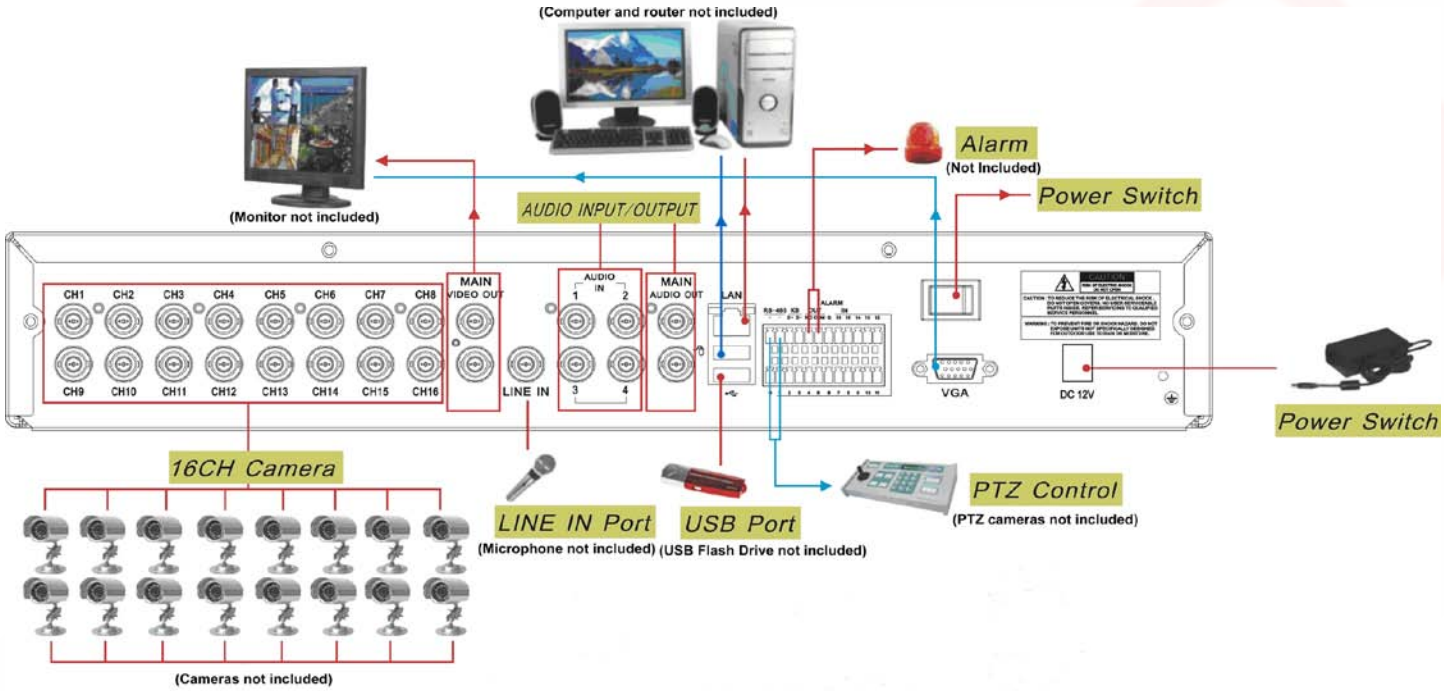
Q: Why can’t I log-in to the Net-Viewer program?
A: Please verify that the Net mode is correct, the cable to the RJ-45 port is well connected to the DVR and the router, and that you are using the correct password. Also check to make sure your ActiveX controls are enabled and your pop-up blocker is turned off.

Q: We have attached a PTZ camera but cannot control it. What is wrong?
A: Verify that the protocol, baud rate, address and other settings on the PTZ camera match the settings you have put into the DVR. Make sure the data cables are attached firmly to the RS485 port on the DVR.

Q: Why does the Buzzer keep sounding?
A: Check to see if the Motion Detection option is enabled on your system and discern whether or not your system has detected activity. If no motion has been detected, check to see if the hard drive on your DVR has been recognized and that there is sufficient space available. Another possibility to consider is that your cameras might have lost video. If this occurs, check the power feed to the cameras and make sure that they are turned on.

## 8.4: System Connections

**(Diagram is for reference only to show where to attach various devices to the DVR. The cameras, external alarms, USB flash drives, monitors and computers are not included with the standard DVR package)**




## 8.5: Accessories Included

**Power Cord**

**Ethernet Cable**

**Power Adaptor**

**User Manual**

**Software CD**

**Remote Control**

**USB Mouse**

**BNC to RCA Video Cable**

## Q-See Product Warranty

**Thank You for Choosing a Q-See Product!**

All of our products are backed by a conditional service warranty covering all hardware for 12 months from the date of purchase. Additionally, our products also come with a free exchange policy that covers all manufacturing defects for one month from the date of purchase. Permanent upgrading service is provided for the software.

**Liability Exclusions:**

Any product malfunction or abnormalities in operation or damage caused by the following reasons are not within the free service scope of our company:

(1) Equipment damage caused by improper operation.
(2) Improper equipment operation environment and conditions (e.g., improper power, extreme environmental temperatures, humidity, lightning and sudden surges of electricity).
(3) Damage caused by acts of nature (e.g., earthquake, fire, etc).
(4) Equipment damage caused by the maintenance of personnel not authorized by Q-See.
(5) Product sold over 12 months ago.

In order to fulfill the terms of your warranty, you must complete the registration process after purchasing our product. To do this, simply fill out the User's Information Card below and fax or mail it in to us at the information listed below. You can also register the product by going to the www.q-see.com website and clicking on the Register link.

# Questions or Comments?

**Contact Us:**

**Mailing Address:**
**DPS Inc.**
**8015 E. Crystal Dr.**
**Anaheim, CA 92807**

**Customer Service:**
**Phone: 877-998-3440 x 538**
**Email: cs@dpsi-usa.com**
**Live Chat from our Website**

**Website:**
**http://www.q-see.com**
**Fax:**
**714-998-3509**

**Tech Support:**
**Phone: 877-998-3440 x 539**
**Email: ts@dpsi-usa.com**
**Live Chat from our Website**

# Customer Information Card

| | |
|---|---|
| **User's Name** | **Mr./Mrs.** |
| **Company Name** | |
| **Postal Address** | |
| **Postal code** | |
| **Phone Number** | |
| **E-mail** | |
| **Model Number of Product** | |
| **Serial Number of Product** | |
| **Purchase Date** | |
| **Distributor** | |

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